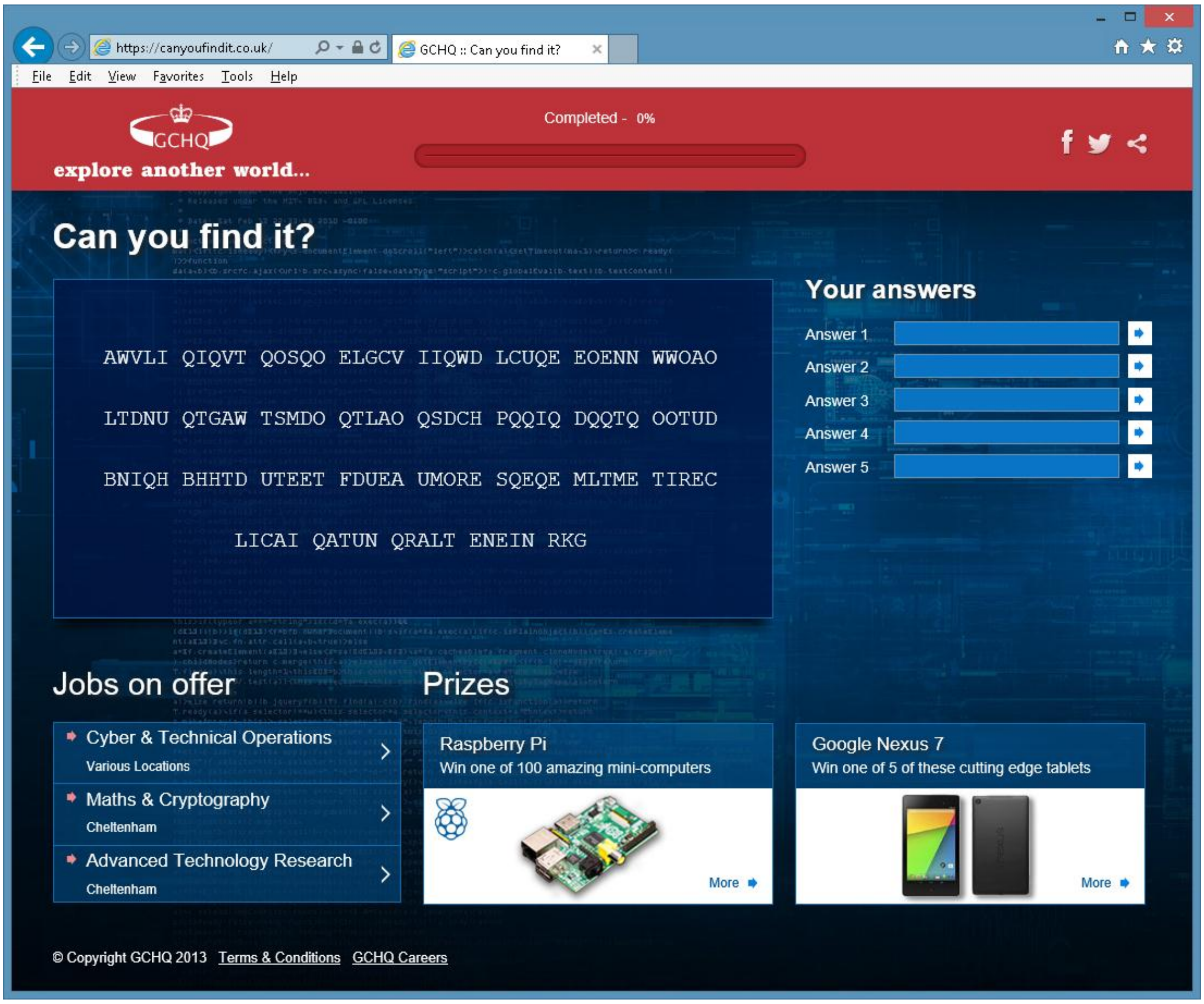

Can you find it?

```
AWVLI QIQVT QOSQO ELGCV IIQWD LCUQE EOENN WWOAO

LTDNU QTGAW TSMDO QTLAO QSDCH PQQIQ DQQTQ OOTUD

BNIQH BHHTD UTEET FDUEA UMORE SQEQE MLTME TIREC

LICAI QATUN QRALT ENEIN RKG
```

Your answers

Answer 1

Answer 2

Answer 3

Answer 4

Answer 5

Jobs on offer

- Cyber & Technical Operations
  Various Locations
- Maths & Cryptography
  Cheltenham
- Advanced Technology Research
  Cheltenham

Prizes

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Google Nexus 7
Win one of 5 of these cutting edge tablets
More

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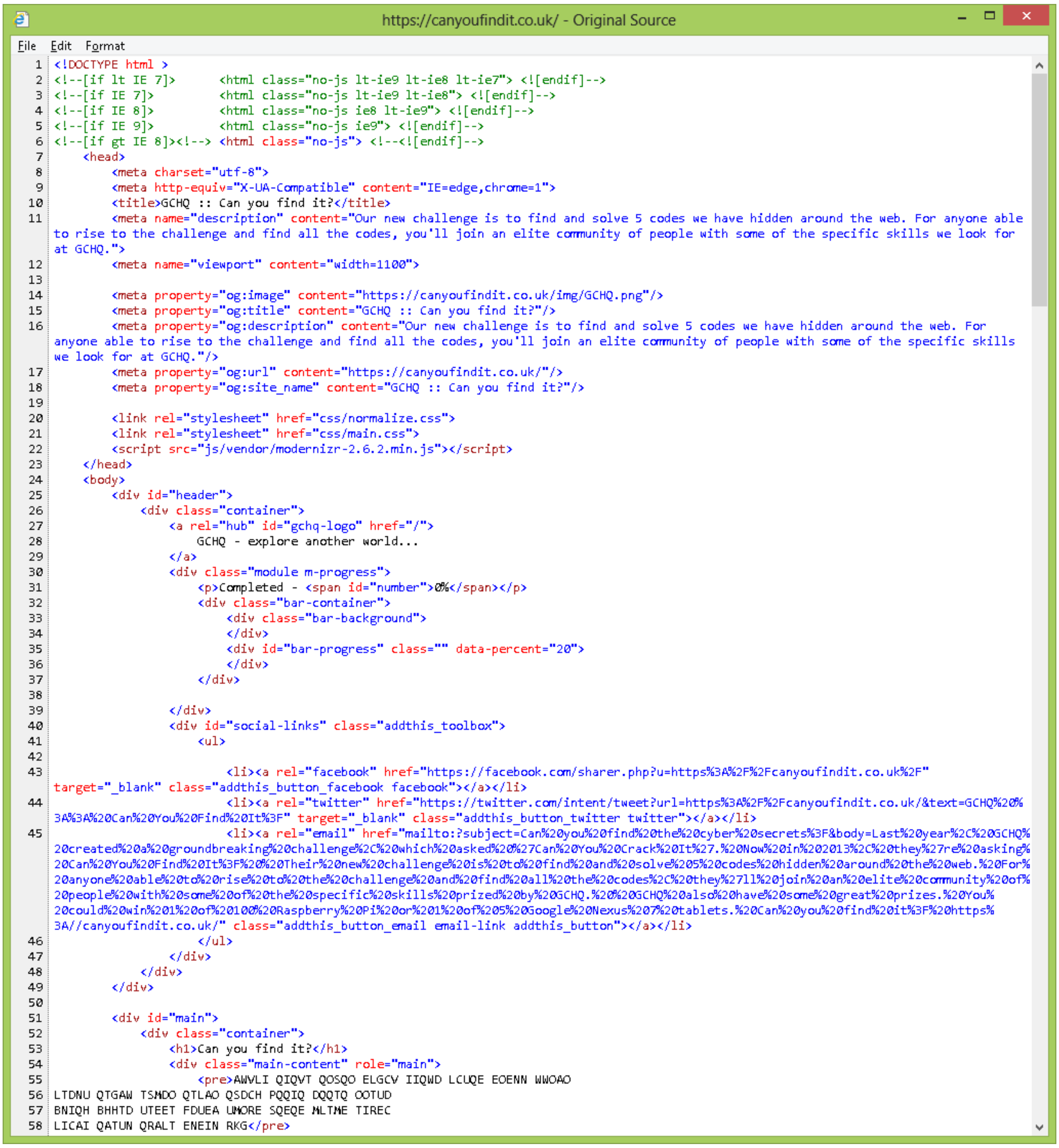
The GCHQ recruitment puzzle begins on the page that announces the competition: https://canyoufindit.co.uk. The first step is to understand what it is that you are expected to do. If you examine the source code of this page



```html
<!DOCTYPE html >
<!--[if lt IE 7]>      <html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]>         <html class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]>         <html class="no-js ie8 lt-ie9"> <![endif]-->
<!--[if IE 9]>         <html class="no-js ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
        <title>GCHQ :: Can you find it?</title>
        <meta name="description" content="Our new challenge is to find and solve 5 codes we have hidden around the web. For anyone able to rise to the challenge and find all the codes, you'll join an elite community of people with some of the specific skills we look for at GCHQ.">
        <meta name="viewport" content="width=1100">

        <meta property="og:image" content="https://canyoufindit.co.uk/img/GCHQ.png"/>
        <meta property="og:title" content="GCHQ :: Can you find it?"/>
        <meta property="og:description" content="Our new challenge is to find and solve 5 codes we have hidden around the web. For anyone able to rise to the challenge and find all the codes, you'll join an elite community of people with some of the specific skills we look for at GCHQ."/>
        <meta property="og:url" content="https://canyoufindit.co.uk/"/>
        <meta property="og:site_name" content="GCHQ :: Can you find it?"/>

        <link rel="stylesheet" href="css/normalize.css">
        <link rel="stylesheet" href="css/main.css">
        <script src="js/vendor/modernizr-2.6.2.min.js"></script>
    </head>
    <body>
        <div id="header">
            <div class="container">
                <a rel="hub" id="gchq-logo" href="/">
                    GCHQ - explore another world...
                </a>
                <div class="module m-progress">
                    <p>Completed - <span id="number">0%</span></p>
                    <div class="bar-container">
                        <div class="bar-background">
                        </div>
                        <div id="bar-progress" class="" data-percent="20">
                        </div>
                    </div>

                </div>
                <div id="social-links" class="addthis_toolbox">
                    <ul>

                        <li><a rel="facebook" href="https://facebook.com/sharer.php?u=https%3A%2F%2Fcanyoufindit.co.uk%2F" target="_blank" class="addthis_button_facebook facebook"></a></li>
                        <li><a rel="twitter" href="https://twitter.com/intent/tweet?url=https%3A%2F%2Fcanyoufindit.co.uk/&text=GCHQ%20%3A%3A%20Can%20You%20Find%20It%3F" target="_blank" class="addthis_button_twitter twitter"></a></li>
                        <li><a rel="email" href="mailto:?subject=Can%20you%20find%20the%20cyber%20secrets%3F&body=Last%20year%2C%20GCHQ%20created%20a%20groundbreaking%20challenge%2C%20which%20asked%20%27Can%20You%20Crack%20It%27.%20Now%20in%202013%2C%20they%27re%20asking%20Can%20You%20Find%20It%3F%20%20Their%20new%20challenge%20is%20to%20find%20and%20solve%205%20codes%20hidden%20around%20the%20web.%20For%20anyone%20able%20to%20rise%20to%20the%20challenge%20and%20find%20all%20the%20codes%2C%20they%27ll%20join%20an%20elite%20community%20of%20people%20with%20some%20of%20the%20specific%20skills%20prized%20by%20GCHQ.%20%20GCHQ%20also%20have%20some%20great%20prizes.%20You%20could%20win%201%20of%20100%20Raspberry%20Pi%20or%201%20of%205%20Google%20Nexus%207%20tablets.%20Can%20you%20find%20it%3F%20https%3A//canyoufindit.co.uk/" class="addthis_button_email email-link addthis_button"></a></li>
                    </ul>
                </div>
            </div>
        </div>

        <div id="main">
            <div class="container">
                <h1>Can you find it?</h1>
                <div class="main-content" role="main">
                    <pre>AWVLI QIQVT QOSQO ELGCV IIQWD LCUQE EOENN WWOAO
LTDNU QTGAW TSMDO QTLAO QSDCH PQQIQ DQQTQ OOTUD
BNIQH BHHTD UTEET FDUEA UMORE SQEQE MLTME TIREC
LICAI QATUN QRALT ENEIN RKG</pre>
```

you will see that it includes the message:

"Our new challenge is to find and solve 5 codes we have hidden around the web. For anyone able to rise to the challenge and find all the codes, you'll join an elite community of people with some of the specific skills we look for at GCHQ."

So, we appear to be looking for a series of web pages each of which will contain a clue to the next page and an answer to the place in the boxes on the start page.

The first puzzle is on the page you see in your browser. It contains a series of characters:

AWVLI QIQVT QOSQO ELGCV IIQWD LCUQE EOENN WWOAO

LTDNU QTGAW TSMDO QTLAO QSDCH PQQIQ DQQTQ OOTUD

BNIQH BHHTD UTEET FDUEA UMORE SQEQE MLTME TIREC

LICAI QATUN QRALT ENEIN RKG

To a code breaker there are a few features that immediately strike you about this text:

1. It is displayed in groups of five characters. This is a historic trend used in part to stop any particular frequency or word matching to be made available by the format in which the message was transmitted. It is probably most famous from the many encrypted Enigma messages that on sees written about. In essence, you can ignore it as it is unlikely to provide you with anything useful for decrypting the message.
2. There are a large number of "Q's". This is unusual as Q is an infrequently used letter in the English language, and assuming the message is in English, the Q's probably server some function. Such infrequently used characters are often used as spaces. So, it is likely that you can ignore the actual spaces used to create the five letter groups and assume that the Q's are the actual spaces.
3. For anyone who has dealt with ciphers the number of characters is of interest. Here we have 143 characters, which just happens to be the product of two prime numbers: 11 and 13. This is a big clue. What you are supposed to do is rearrange text as shown into a grid that is 11 by 13 characters:

A	W	V	L	I	Q	I	Q	V	T	Q	O	S
Q	O	E	L	G	C	V	I	I	Q	W	D	L
C	U	Q	E	E	O	E	N	N	W	W	O	A
O	L	T	D	N	U	Q	T	G	A	W	T	S
M	D	O	Q	T	L	A	O	Q	S	D	C	H
P	Q	Q	I	Q	D	Q	Q	T	Q	O	O	T
U	D	B	N	I	Q	H	B	H	H	T	D	U
T	E	E	T	F	D	U	E	A	U	M	O	R
E	S	Q	E	Q	E	M	L	T	M	E	T	I
R	E	C	L	I	C	A	I	Q	A	T	U	N
Q	R	A	L	T	E	N	E	I	N	R	K	G

Now if you read down the columns, using Q's as spaces you see the following message emerge:

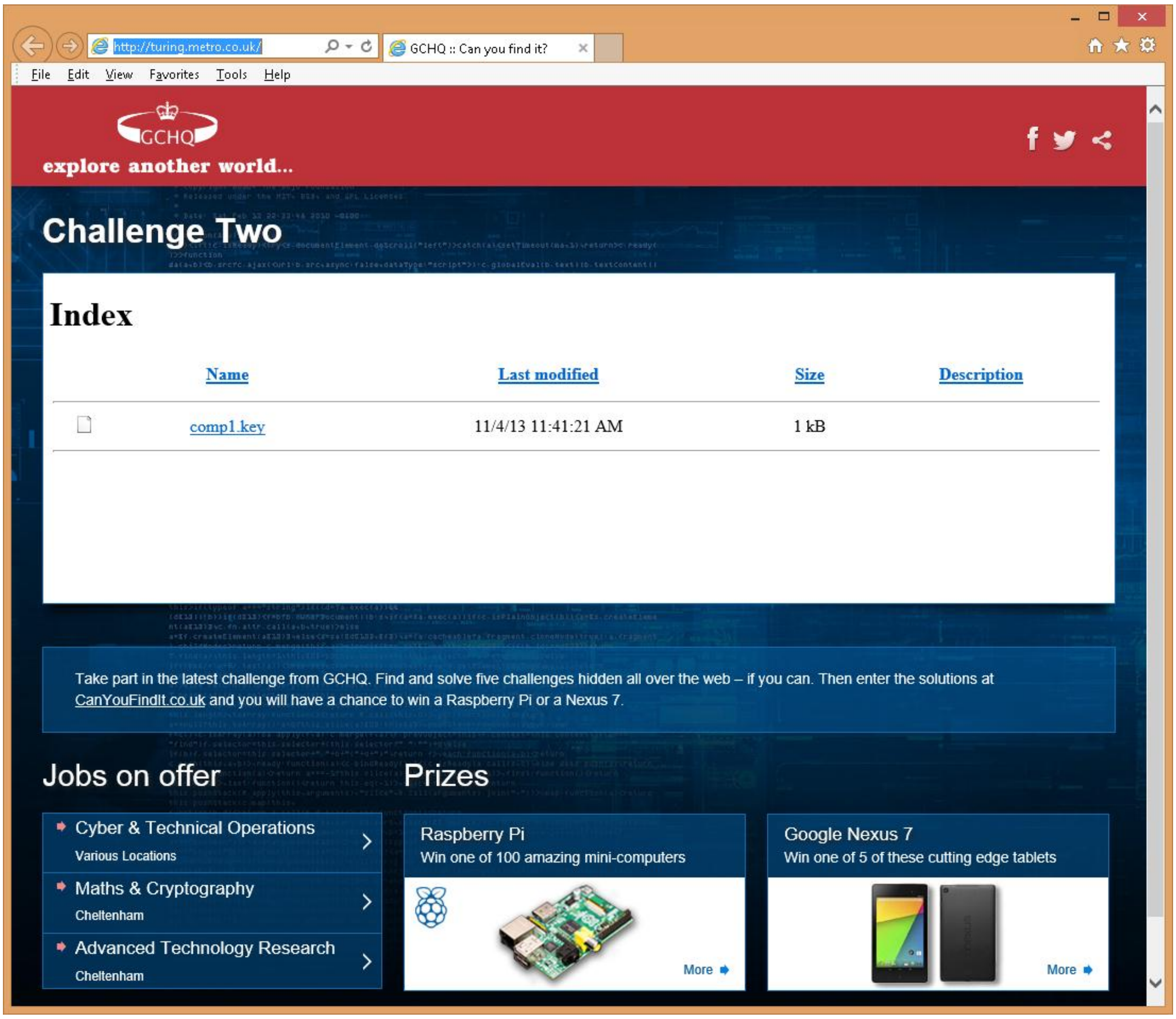
A COMPUTER WOUL DESERVE TO BE CALLED INTELLIGENT IF IT COULD DECEIVE A HUMAN INTO BELIEVING THAT IT WAS HUMAN WWWDOTMETRODOTCODOTUKSLASHTURING

This form of encryption is a transposition cipher. It has many forms but the one used here is one of the simplest. It has a long history and before electronic encryption devices it, and its variants were the basis for many secret communications.

If you take the web address at the end of the message and write it in more familiar form:

www.metro.co.uk/turing

you have the next stop on your journey, plus you have the answer to the first clue which is "Turing".



Challenge Two

Index

Name	Last modified	Size	Description
comp1.key	11/4/13 11:41:21 AM	1 kB	

Take part in the latest challenge from GCHQ. Find and solve five challenges hidden all over the web – if you can. Then enter the solutions at CanYouFindIt.co.uk and you will have a chance to win a Raspberry Pi or a Nexus 7.

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  Cheltenham
- Advanced Technology Research
  Cheltenham

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Win one of 100 amazing mini-computers

Google Nexus 7
Win one of 5 of these cutting edge tablets

When you arrive at the new web page you see that there is a file available to download. It helpfully has the extension “key” so even before opening it one can assuming it is some form of encryption key. Download and open the file and you see the following:

-----BEGIN RSA PRIVATE KEY-----

MIIC2gIBAAKBgDfABK8+joDLdbFTDJ+y3PTTzkqCi1L2qEjgxdg1iyZshJTeKUck

SYVyKBeOBtB3FwwqXVa6iNEHJeLFewFE6ulEOIcatVp11Zg0ibMfnqTivbd6t8/z

3KzqrFksg9xQiicMactmTqFkm8ro5ODc2NTQzMjEwLy4tLCslBOCOVHxAgMBAAEC

gYATW12FB2BtQbecmSxh6rWjYENZRZhgdvoZS8oF9xlYfwdNtRF5/RR1/BwFia++

BAuBktgTu/KzORsjcNPzrd0uTCbTG6hW8YPK2ROVOOeAMHek8Nl3+SW5wdePKuWw

MdjDDjqxXDns+ZC1d2Cpz5V+x+2znOYL0bsEKei0sWl7LQKBgDfABK8+joDLdbFT

DJ+y3PTTzkqCi1L2qEjgxdg1iyZshJTeKUckSYVyKBeOBtB3FwwqXVa6iNEHJeLF

ewFE6uhVSior5HGPArFhsOQ0v9ob1NCV7P8M99qN4XplmX/xs05HgQCVh9aMWtio

pKCcmJSQjIiEgHx4dHBsU9JB+TvkAkB3dy53aHRzaXNpbGd1b2VjdHNyZWhzcmku

ZW9jdS4va2xidGVoY2VsIHkgICAgICAgICAgICAgICAgIAuPAkATpSSd/C5S

IEAbUPk+ZYAdt7OYVzay7ViAiaukhkt+/sJG+m8GmHnAKyLf9ohx3/aIcd/2iHHf

9ohx3/ayirJPAkAIefJYEpdAoRjJQCHPGUpOVjLiyQMyPcnsutG+ctAGGU8lZTDU

yUim9V7iwqTE4sKkxOLCpMTiwqTE4sKkxOFNAoGAFInzTsAOkauW3crd1XfxMhxi

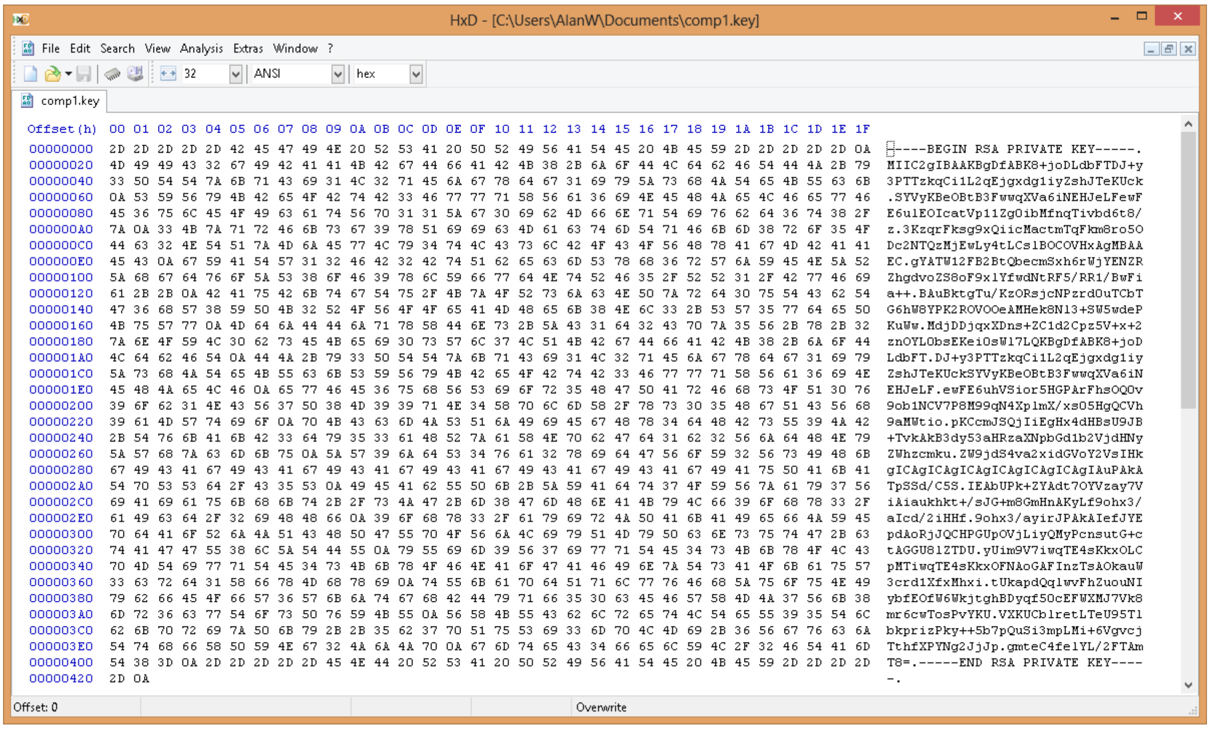
tUkapdQqlwvFhZuouNIybfEOfW6WkjtghBDyqf50cEFWXMJ7Vk8mr6cwTosPvYKU

VXKUCblretLTeU95TlbkprizPky++5b7pQuSi3mpLMi+6VgvcjTthfXPYNg2JjJp

gmteC4felYL/2FTAmT8=

-----END RSA PRIVATE KEY-----

If you take this on face value it is a RSA Private Key from an RSA Public/Private key pair. What is a lot less clear is what it is supposed to be used to decrypt. The page contains no other text or files that would seem to be usable with this key. You have to assume the key itself has something more to tell you. So, the starting point of most forensics is to open the file in a hex editor and see what it might reveal:

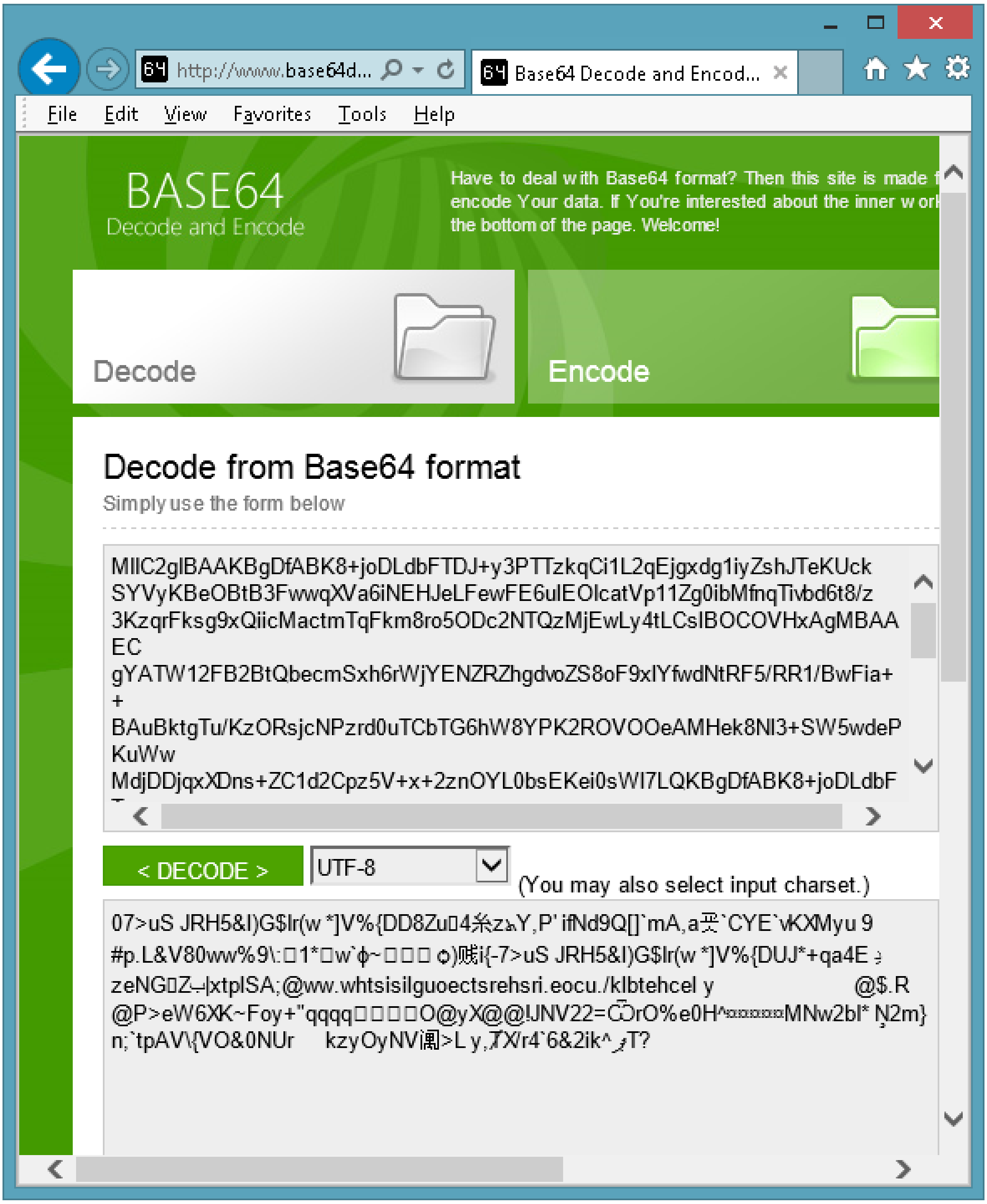


```
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F

00000000  2D 2D 2D 2D 2D 42 45 47 49 4E 20 52 53 41 20 50 52 49 56 41 54 45 20 4B 45 59 2D 2D 2D 2D 2D 0A  -----BEGIN RSA PRIVATE KEY-----.
00000020  4D 49 49 43 32 67 49 42 41 41 4B 42 67 44 66 41 42 4B 38 2B 6A 6F 44 4C 64 62 46 54 44 4A 2B 79  MIIC2gIBAAKBgDfABK8+joDLdbFTDJ+y
00000040  33 50 54 54 7A 6B 71 43 69 31 4C 32 71 45 6A 67 78 64 67 31 69 79 5A 73 68 4A 54 65 4B 55 63 6B  3PTTzkqCi1L2qEjgxdg1iyZshJTeKUck
00000060  0A 53 59 56 79 4B 42 65 4F 42 74 42 33 46 77 77 71 58 56 61 36 69 4E 45 48 4A 65 4C 46 65 77 46  .SYVyKBeOBtB3FwwqXVa6iNEHJeLFewF
00000080  45 36 75 6C 45 4F 49 63 61 74 56 70 31 31 5A 67 30 69 62 4D 66 6E 71 54 69 76 62 64 36 74 38 2F  E6ulEOIcatVp11Zg0ibMfnqTivbd6t8/
000000A0  7A 0A 33 4B 7A 71 72 46 6B 73 67 39 78 51 69 69 63 4D 61 63 74 6D 54 71 46 6B 6D 38 72 6F 35 4F  z.3KzqrFksg9xQiicMactmTqFkm8ro5O
000000C0  44 63 32 4E 54 51 7A 4D 6A 45 77 4C 79 34 74 4C 43 73 6C 42 4F 43 4F 56 48 78 41 67 4D 42 41 41  Dc2NTQzMjEwLy4tLCslBOCOVHxAgMBAA
000000E0  45 43 0A 67 59 41 54 57 31 32 46 42 32 42 74 51 62 65 63 6D 53 78 68 36 72 57 6A 59 45 4E 5A 52  EC.gYATW12FB2BtQbecmSxh6rWjYENZR
00000100  5A 68 67 64 76 6F 5A 53 38 6F 46 39 78 6C 59 66 77 64 4E 74 52 46 35 2F 52 52 31 2F 42 77 46 69  ZhgdvoZS8oF9xlYfwdNtRF5/RR1/BwFi
00000120  61 2B 2B 0A 42 41 75 42 6B 74 67 54 75 2F 4B 7A 4F 52 73 6A 63 4E 50 7A 72 64 30 75 54 43 62 54  a++.BAuBktgTu/KzORsjcNPzrd0uTCbT
00000140  47 36 68 57 38 59 50 4B 32 52 4F 56 4F 4F 65 41 4D 48 65 6B 38 4E 6C 33 2B 53 57 35 77 64 65 50  G6hW8YPK2ROVOOeAMHek8Nl3+SW5wdeP
00000160  4B 75 57 77 0A 4D 64 6A 44 44 6A 71 78 58 44 6E 73 2B 5A 43 31 64 32 43 70 7A 35 56 2B 78 2B 32  KuWw.MdjDDjqxXDns+ZC1d2Cpz5V+x+2
00000180  7A 6E 4F 59 4C 30 62 73 45 4B 65 69 30 73 57 6C 37 4C 51 4B 42 67 44 66 41 42 4B 38 2B 6A 6F 44  znOYL0bsEKei0sWl7LQKBgDfABK8+joD
000001A0  4C 64 62 46 54 0A 44 4A 2B 79 33 50 54 54 7A 6B 71 43 69 31 4C 32 71 45 6A 67 78 64 67 31 69 79  LdbFT.DJ+y3PTTzkqCi1L2qEjgxdg1iy
000001C0  5A 73 68 4A 54 65 4B 55 63 6B 53 59 56 79 4B 42 65 4F 42 74 42 33 46 77 77 71 58 56 61 36 69 4E  ZshJTeKUckSYVyKBeOBtB3FwwqXVa6iN
000001E0  45 48 4A 65 4C 46 0A 65 77 46 45 36 75 68 56 53 69 6F 72 35 48 47 50 41 72 46 68 73 4F 51 30 76  EHJeLF.ewFE6uhVSior5HGPArFhsOQ0v
00000200  39 6F 62 31 4E 43 56 37 50 38 4D 39 39 71 4E 34 58 70 6C 6D 58 2F 78 73 30 35 48 67 51 43 56 68  9ob1NCV7P8M99qN4XplmX/xs05HgQCVh
00000220  39 61 4D 57 74 69 6F 0A 70 4B 43 63 6D 4A 53 51 6A 49 69 45 67 48 78 34 64 48 42 73 55 39 4A 42  9aMWtio.pKCcmJSQjIiEgHx4dHBsU9JB
00000240  2B 54 76 6B 41 6B 42 33 64 79 35 33 61 48 52 7A 61 58 4E 70 62 47 64 31 62 32 56 6A 64 48 4E 79  +TvkAkB3dy53aHRzaXNpbGd1b2VjdHNy
00000260  5A 57 68 7A 63 6D 6B 75 0A 5A 57 39 6A 64 53 34 76 61 32 78 69 64 47 56 6F 59 32 56 73 49 48 6B  ZWhzcmku.ZW9jdS4va2xidGVoY2VsIHk
00000280  67 49 43 41 67 49 43 41 67 49 43 41 67 49 43 41 67 49 43 41 67 49 43 41 67 49 41 75 50 41 6B 41  gICAgICAgICAgICAgICAgICAgIAuPAkA
000002A0  54 70 53 53 64 2F 43 35 53 0A 49 45 41 62 55 50 6B 2B 5A 59 41 64 74 37 4F 59 56 7A 61 79 37 56  TpSSd/C5S.IEAbUPk+ZYAdt7OYVzay7V
000002C0  69 41 69 61 75 6B 68 6B 74 2B 2F 73 4A 47 2B 6D 38 47 6D 48 6E 41 4B 79 4C 66 39 6F 68 78 33 2F  iAiaukhkt+/sJG+m8GmHnAKyLf9ohx3/
000002E0  61 49 63 64 2F 32 69 48 48 66 0A 39 6F 68 78 33 2F 61 79 69 72 4A 50 41 6B 41 49 65 66 4A 59 45  aIcd/2iHHf.9ohx3/ayirJPAkAIefJYE
00000300  70 64 41 6F 52 6A 4A 51 43 48 50 47 55 70 4F 56 6A 4C 69 79 51 4D 79 50 63 6E 73 75 74 47 2B 63  pdAoRjJQCHPGUpOVjLiyQMyPcnsutG+c
00000320  74 41 47 47 55 38 6C 5A 54 44 55 0A 79 55 69 6D 39 56 37 69 77 71 54 45 34 73 4B 6B 78 4F 4C 43  tAGGU8lZTDU.yUim9V7iwqTE4sKkxOLC
00000340  70 4D 54 69 77 71 54 45 34 73 4B 6B 78 4F 46 4E 41 6F 47 41 46 49 6E 7A 54 73 41 4F 6B 61 75 57  pMTiwqTE4sKkxOFNAoGAFInzTsAOkauW
00000360  33 63 72 64 31 58 66 78 4D 68 78 69 0A 74 55 6B 61 70 64 51 71 6C 77 76 46 68 5A 75 6F 75 4E 49  3crd1XfxMhxi.tUkapdQqlwvFhZuouNI
00000380  79 62 66 45 4F 66 57 36 57 6B 6A 74 67 68 42 44 79 71 66 35 30 63 45 46 57 58 4D 4A 37 56 6B 38  ybfEOfW6WkjtghBDyqf50cEFWXMJ7Vk8
000003A0  6D 72 36 63 77 54 6F 73 50 76 59 4B 55 0A 56 58 4B 55 43 62 6C 72 65 74 4C 54 65 55 39 35 54 6C  mr6cwTosPvYKU.VXKUCblretLTeU95Tl
000003C0  62 6B 70 72 69 7A 50 6B 79 2B 2B 35 62 37 70 51 75 53 69 33 6D 70 4C 4D 69 2B 36 56 67 76 63 6A  bkprizPky++5b7pQuSi3mpLMi+6Vgvcj
000003E0  54 74 68 66 58 50 59 4E 67 32 4A 6A 4A 70 0A 67 6D 74 65 43 34 66 65 6C 59 4C 2F 32 46 54 41 6D  TthfXPYNg2JjJp.gmteC4felYL/2FTAm
00000400  54 38 3D 0A 2D 2D 2D 2D 2D 45 4E 44 20 52 53 41 20 50 52 49 56 41 54 45 20 4B 45 59 2D 2D 2D 2D  T8=.-----END RSA PRIVATE KEY----
00000420  2D 0A                                                                                            -.
```

Even when you remove the header and footer (-----BEGIN RSA PRIVATE KEY----- and -----END RSA PRIVATE KEY-----) it doesn’t tell you much.

As is common practice for transmitting keys, the file is encoded using Base64. There are lots of online Base64 decoders into which you can place this key for decoding (remembering to remove the header and footer first). I used http://www.base64decode.org/ which gave me:



Have to deal with Base64 format? Then this site is made f encode Your data. If You're interested about the inner work the bottom of the page. Welcome!

Decode from Base64 format

Simply use the form below

```
MIIC2gIBAAKBgDfABK8+joDLdbFTDJ+y3PTTzkqCi1L2qEjgxdg1iyZshJTeKUck
SYVyKBeOBtB3FwwqXVa6iNEHJeLFewFE6uIEOlcatVp11Zg0ibMfnqTivbd6t8/z
3KzqrFksg9xQiicMactmTqFkm8ro5ODc2NTQzMjEwLy4tLCsIBOCOVHxAgMBAA
EC
gYATW12FB2BtQbecmSxh6rWjYENZRZhgdvoZS8oF9xlYfwdNtRF5/RR1/BwFia+
+
BAuBktgTu/KzORsjcNPzrd0uTCbTG6hW8YPK2ROVOOeAMHek8NI3+SW5wdeP
KuWw
MdjDDjqxXDns+ZC1d2Cpz5V+x+2znOYL0bsEKei0sWI7LQKBgDfABK8+joDLdbF
```

(You may also select input charset.)

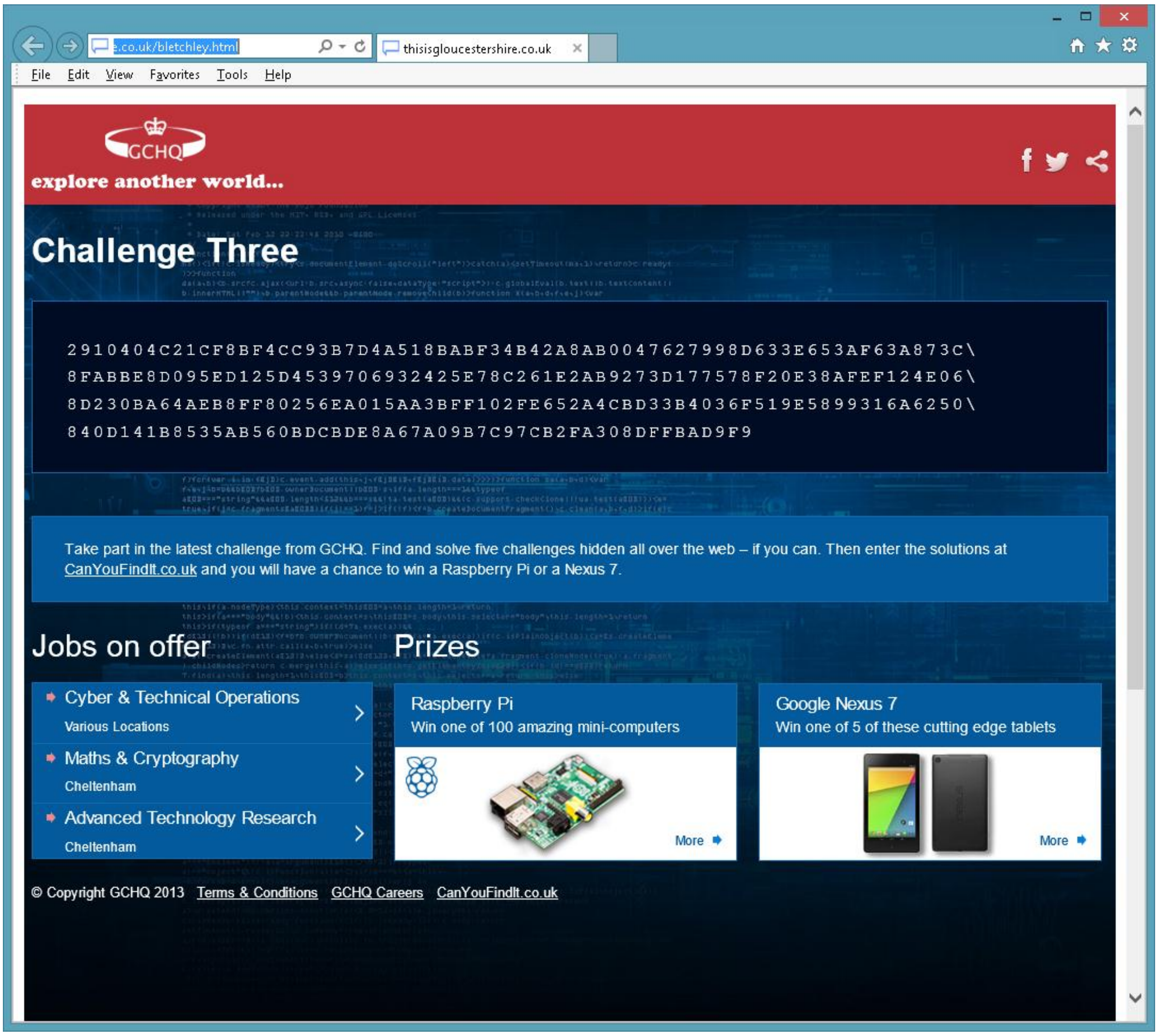
```
07>uS JRH5&I)G$Ir(w *]V%{DD8Zu□4糸zゐY,P' ifNd9Q[]`mA,a买`CYE`vKXMyu 9
#p.L&V80ww%9\:□1*□w`ф~□□□ ф)贱i{-7>uS JRH5&I)G$Ir(w *]V%{DUJ*+qa4E ,
zeNG□Z↵|xtplSA;@ww.whtsisilguoectsrehsri.eocu./klbtehcel y                @$.R
@P>eW6XK~Foy+"qqqq□□□□O@yX@@!JNV22=ƠrO%e0H^□□□□□MNw2bl* Ņ2m}
n;`tpAV\{VO&0NUr     kzyOyNV阛>L y,ƮX/r4`6&2ik^ӻT?
```

As you scan through the decoded string of characters you see a string embedded in it which starts to look familiar: ww.whtsisilguoectsrehsri.eocu./klbtehcel y

And if you do a simple swap of alternate characters you find you have another web address:

www.thisisgloucestershire.co.uk/bletchley

Sure enough this is the next stop on the journey, and "Bletchley" is the next answer for the main page:



Challenge Three

```
2910404C21CF8BF4CC93B7D4A518BABF34B42A8AB0047627998D633E653AF63A873C\
8FABBE8D095ED125D4539706932425E78C261E2AB9273D177578F20E38AFEF124E06\
8D230BA64AEB8FF80256EA015AA3BFF102FE652A4CBD33B4036F519E5899316A6250\
840D141B8535AB560BDCBDE8A67A09B7C97CB2FA308DFFBAD9F9
```

Take part in the latest challenge from GCHQ. Find and solve five challenges hidden all over the web – if you can. Then enter the solutions at CanYouFindIt.co.uk and you will have a chance to win a Raspberry Pi or a Nexus 7.

Jobs on offer

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- Advanced Technology Research – Cheltenham

Prizes

Raspberry Pi – Win one of 100 amazing mini-computers – More

Google Nexus 7 – Win one of 5 of these cutting edge tablets – More

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The page contains a new stream if characters:

2910404C21CF8BF4CC93B7D4A518BABF34B42A8AB0047627998D633E653AF63A873C\

8FABBE8D095ED125D4539706932425E78C261E2AB9273D177578F20E38AFEF124E06\

8D230BA64AEB8FF80256EA015AA3BFF102FE652A4CBD33B4036F519E5899316A6250\

840D141B8535AB560BDCBDE8A67A09B7C97CB2FA308DFFBAD9F9

It looks very much like a modern cipher stream so one has to assume there is a key for decrypting it which of course we were just given on the previous page. So, let's revisit the key we were given.

Files that begin and end with these words have a very definite format. It is known as PKCS#1 and comprises the following elements:

1. ASN.1 Header
2. Algorithm Version
3. Modulus
4. Public Exponent
5. Private Exponent
6. prime1

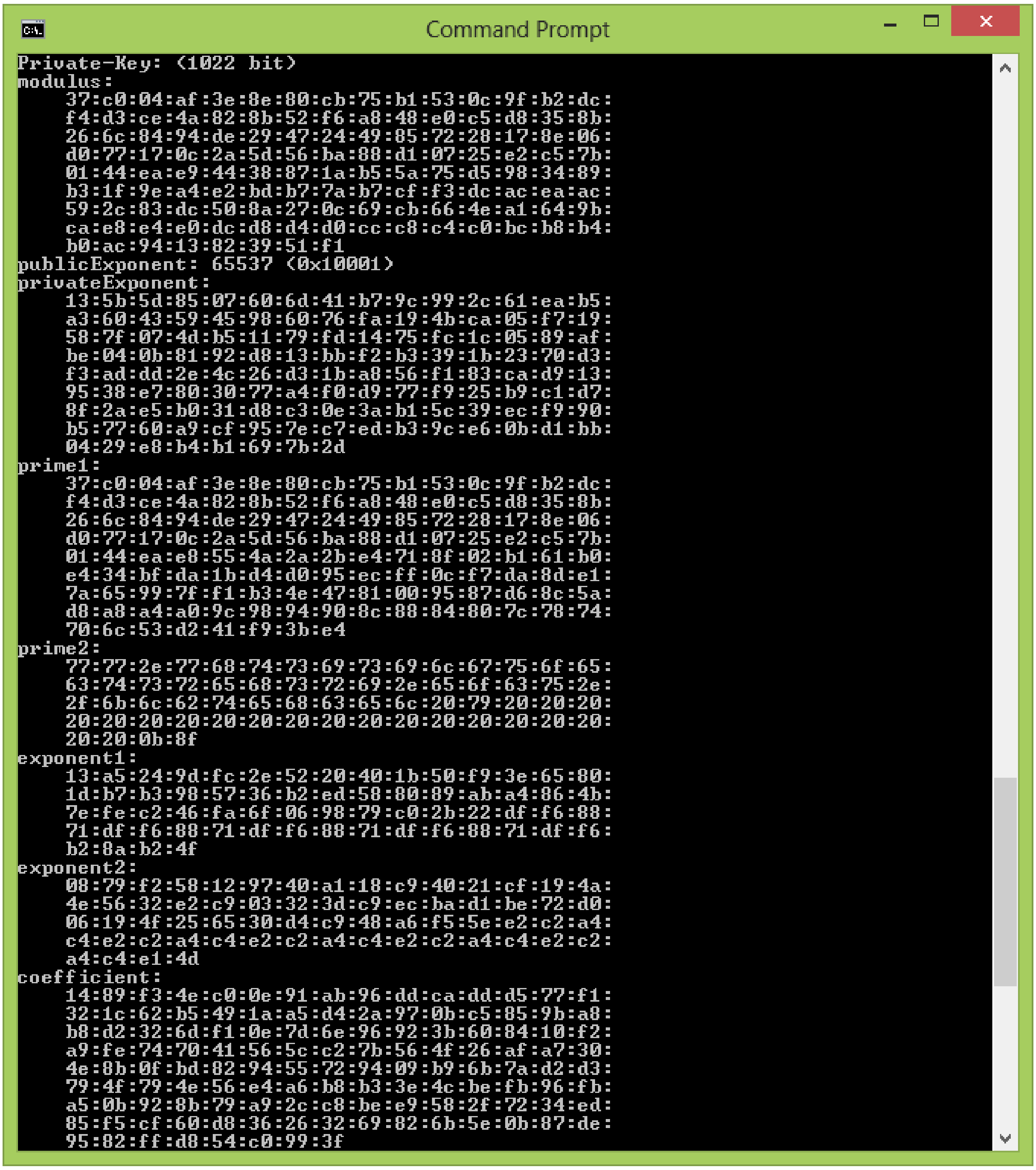
7. prime2
8. exponent 1
9. exponent 2
10. coefficient

Each of these can be extracted manually by partitioning up the hex format of the key. If you do that you see that the web address www.thisisgloucestershire .co.uk/Bletchley is in the component known as Prime 2.

There are online descriptions if you wanted to go this route eg http://etherhack.co.uk/asymmetric/docs/rsa_key_breakdown.html However, the simpler way is to use a tool such as OpenSSL which is available here http://www.openssl.org/ This will give you all of the components of the Private Key by analysing the key file with the simple command:

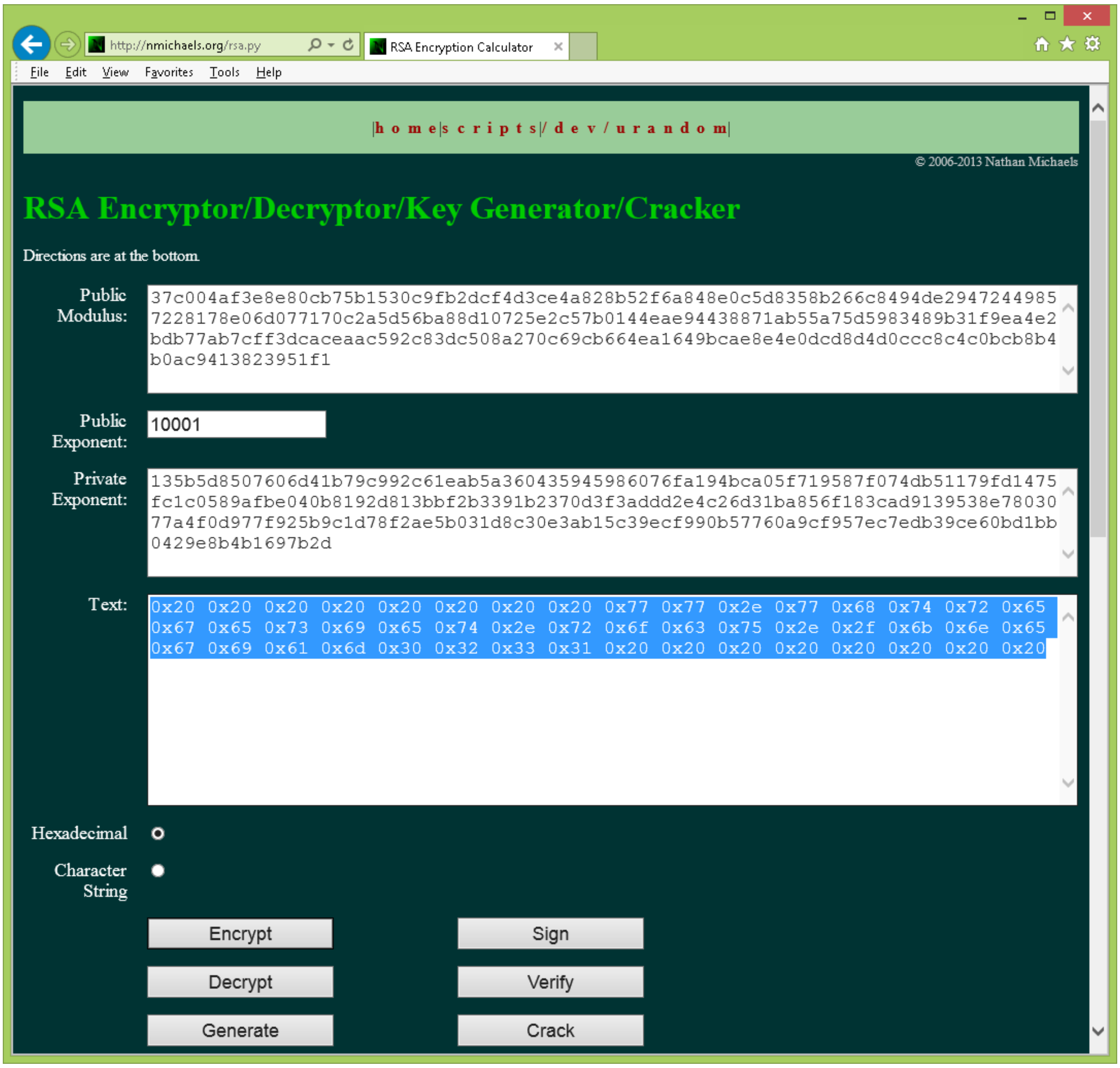
```
openssl.exe RSA -in comp1.key -text
```

which outputs the following:



```
Private-Key: (1022 bit)
modulus:
    37:c0:04:af:3e:8e:80:cb:75:b1:53:0c:9f:b2:dc:
    f4:d3:ce:4a:82:8b:52:f6:a8:48:e0:c5:d8:35:8b:
    26:6c:84:94:de:29:47:24:49:85:72:28:17:8e:06:
    d0:77:17:0c:2a:5d:56:ba:88:d1:07:25:e2:c5:7b:
    01:44:ea:e9:44:38:87:1a:b5:5a:75:d5:98:34:89:
    b3:1f:9e:a4:e2:bd:b7:7a:b7:cf:f3:dc:ac:ea:ac:
    59:2c:83:dc:50:8a:27:0c:69:cb:66:4e:a1:64:9b:
    ca:e8:e4:e0:dc:d8:d4:d0:cc:c8:c4:c0:bc:b8:b4:
    b0:ac:94:13:82:39:51:f1
publicExponent: 65537 (0x10001)
privateExponent:
    13:5b:5d:85:07:60:6d:41:b7:9c:99:2c:61:ea:b5:
    a3:60:43:59:45:98:60:76:fa:19:4b:ca:05:f7:19:
    58:7f:07:4d:b5:11:79:fd:14:75:fc:1c:05:89:af:
    be:04:0b:81:92:d8:13:bb:f2:b3:39:1b:23:70:d3:
    f3:ad:dd:2e:4c:26:d3:1b:a8:56:f1:83:ca:d9:13:
    95:38:e7:80:30:77:a4:f0:d9:77:f9:25:b9:c1:d7:
    8f:2a:e5:b0:31:d8:c3:0e:3a:b1:5c:39:ec:f9:90:
    b5:77:60:a9:cf:95:7e:c7:ed:b3:9c:e6:0b:d1:bb:
    04:29:e8:b4:b1:69:7b:2d
prime1:
    37:c0:04:af:3e:8e:80:cb:75:b1:53:0c:9f:b2:dc:
    f4:d3:ce:4a:82:8b:52:f6:a8:48:e0:c5:d8:35:8b:
    26:6c:84:94:de:29:47:24:49:85:72:28:17:8e:06:
    d0:77:17:0c:2a:5d:56:ba:88:d1:07:25:e2:c5:7b:
    01:44:ea:e8:55:4a:2a:2b:e4:71:8f:02:b1:61:b0:
    e4:34:bf:da:1b:d4:d0:95:ec:ff:0c:f7:da:8d:e1:
    7a:65:99:7f:f1:b3:4e:47:81:00:95:87:d6:8c:5a:
    d8:a8:a4:a0:9c:98:94:90:8c:88:84:80:7c:78:74:
    70:6c:53:d2:41:f9:3b:e4
prime2:
    77:77:2e:77:68:74:73:69:73:69:6c:67:75:6f:65:
    63:74:73:72:65:68:73:72:69:2e:65:6f:63:75:2e:
    2f:6b:6c:62:74:65:68:63:65:6c:20:79:20:20:20:
    20:20:20:20:20:20:20:20:20:20:20:20:20:20:20:
    20:20:0b:8f
exponent1:
    13:a5:24:9d:fc:2e:52:20:40:1b:50:f9:3e:65:80:
    1d:b7:b3:98:57:36:b2:ed:58:80:89:ab:a4:86:4b:
    7e:fe:c2:46:fa:6f:06:98:79:c0:2b:22:df:f6:88:
    71:df:f6:88:71:df:f6:88:71:df:f6:88:71:df:f6:
    b2:8a:b2:4f
exponent2:
    08:79:f2:58:12:97:40:a1:18:c9:40:21:cf:19:4a:
    4e:56:32:e2:c9:03:32:3d:c9:ec:ba:d1:be:72:d0:
    06:19:4f:25:65:30:d4:c9:48:a6:f5:5e:e2:c2:a4:
    c4:e2:c2:a4:c4:e2:c2:a4:c4:e2:c2:a4:c4:e2:c2:
    a4:c4:e1:4d
coefficient:
    14:89:f3:4e:c0:0e:91:ab:96:dd:ca:dd:d5:77:f1:
    32:1c:62:b5:49:1a:a5:d4:2a:97:0b:c5:85:9b:a8:
    b8:d2:32:6d:f1:0e:7d:6e:96:92:3b:60:84:10:f2:
    a9:fe:74:70:41:56:5c:c2:7b:56:4f:26:af:a7:30:
    4e:8b:0f:bd:82:94:55:72:94:09:b9:6b:7a:d2:d3:
    79:4f:79:4e:56:e4:a6:b8:b3:3e:4c:be:fb:96:fb:
    a5:0b:92:8b:79:a9:2c:c8:be:e9:58:2f:72:34:ed:
    85:f5:cf:60:d8:36:26:32:69:82:6b:5e:0b:87:de:
    95:82:ff:d8:54:c0:99:3f
```

Now find yourself a RSA decryptor. I used one written by Nathan Michaels at http://nmichaels.org/rsa.py



http://nmichaels.org/rsa.py — RSA Encryption Calculator

|h o m e|s c r i p t s|/ d e v / u r a n d o m|

© 2006-2013 Nathan Michaels

RSA Encryptor/Decryptor/Key Generator/Cracker

Directions are at the bottom.

Public Modulus:

```
37c004af3e8e80cb75b1530c9fb2dcf4d3ce4a828b52f6a848e0c5d8358b266c8494de2947244985
7228178e06d077170c2a5d56ba88d10725e2c57b0144eae94438871ab55a75d5983489b31f9ea4e2
bdb77ab7cff3dcaceaac592c83dc508a270c69cb664ea1649bcae8e4e0dcd8d4d0ccc8c4c0bcb8b4
b0ac9413823951f1
```

Public Exponent: 10001

Private Exponent:

```
135b5d8507606d41b79c992c61eab5a360435945986076fa194bca05f719587f074db51179fd1475
fc1c0589afbe040b8192d813bbf2b3391b2370d3f3addd2e4c26d31ba856f183cad9139538e78030
77a4f0d977f925b9c1d78f2ae5b031d8c30e3ab15c39ecf990b57760a9cf957ec7edb39ce60bd1bb
0429e8b4b1697b2d
```

Text:

```
0x20 0x20 0x20 0x20 0x20 0x20 0x20 0x20 0x77 0x77 0x2e 0x77 0x68 0x74 0x72 0x65
0x67 0x65 0x73 0x69 0x65 0x74 0x2e 0x72 0x6f 0x63 0x75 0x2e 0x2f 0x6b 0x6e 0x65
0x67 0x69 0x61 0x6d 0x30 0x32 0x33 0x31 0x20 0x20 0x20 0x20 0x20 0x20 0x20 0x20
```

Hexadecimal ●

Character String ○

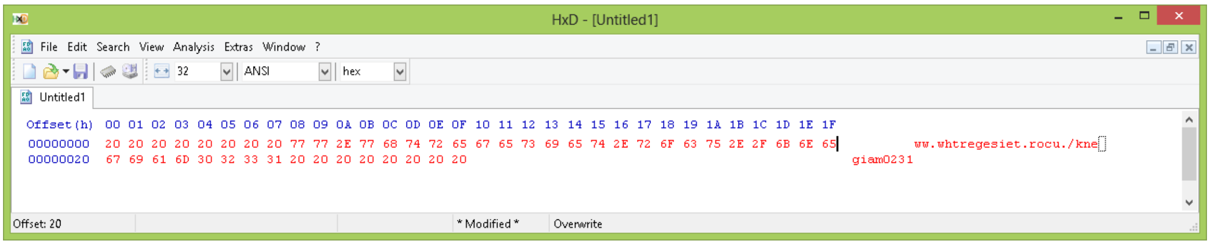
Hence the decoded hex string is:

20 20 20 20 20 20 20 20 77 77 2e 77 68 74 72 65 67 65 73 69 65

74 2e 72 6f 63 75 2e 2f 6b 6e 65 67 69 61 6d 30 32 33 31 20 20

20 20 20 20 20 20

If you put this back into your favourite Hex editor you again see a web address that has had each character swapped:



HxD - [Untitled1]

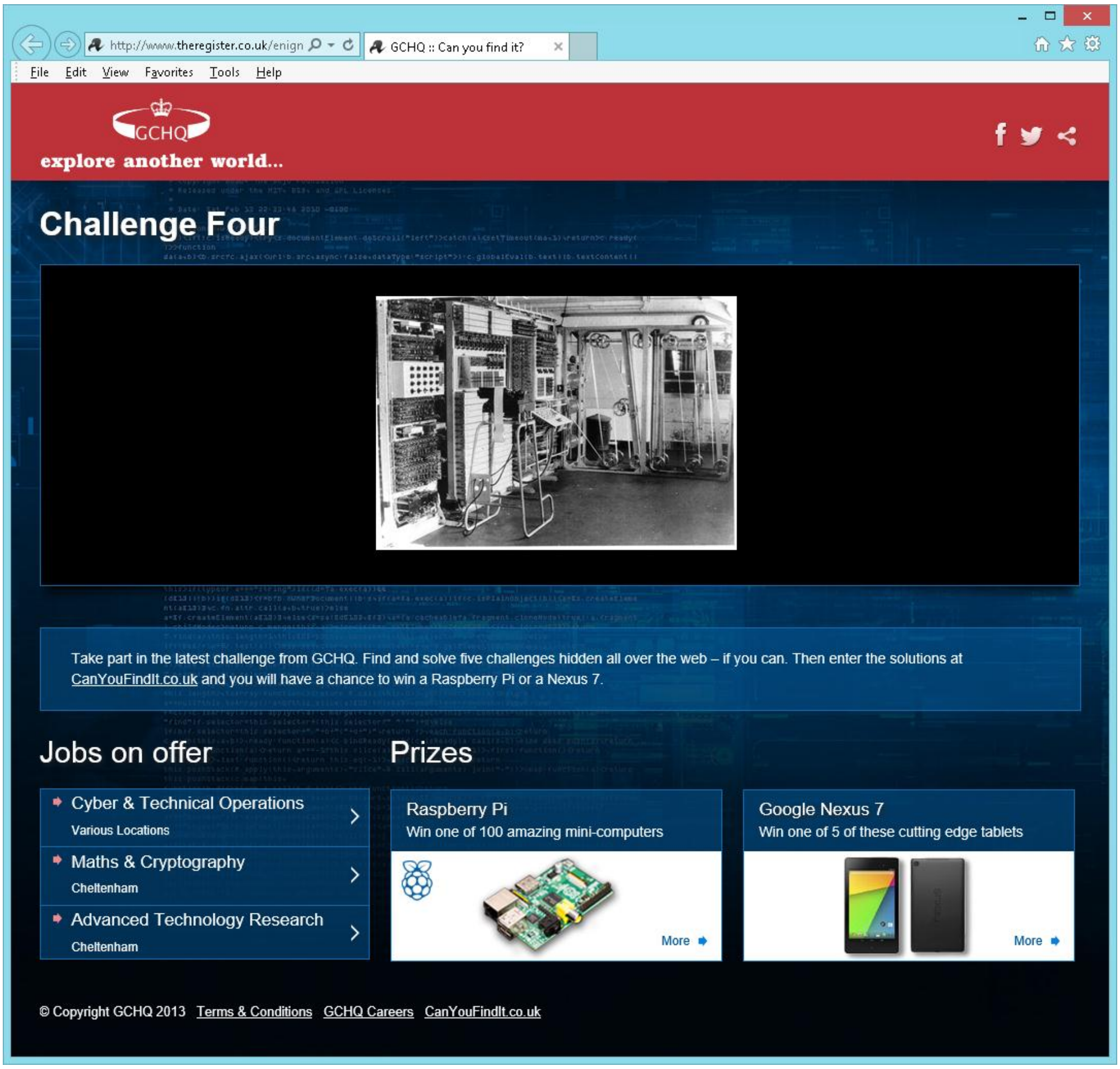
```
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F

00000000  20 20 20 20 20 20 20 20 77 77 2E 77 68 74 72 65 67 65 73 69 65 74 2E 72 6F 63 75 2E 2F 6B 6E 65          ww.whtregesiet.rocu./kne
00000020  67 69 61 6D 30 32 33 31 20 20 20 20 20 20 20 20                                                  giam0231
```

Offset: 20 | * Modified * | Overwrite

So, swapping back the characters in the string ww.whtregesiet.rocu./knegiam0231 gives you the URL: www.theregister.co.uk/enigma2013 Hence, you have the next stop on the journey and, following the pattern where the last part of the URL is the answer for the home page, your next answer is Enigma2013.

This next page presents something new:



http://www.theregister.co.uk/enign
GCHQ :: Can you find it?
File Edit View Favorites Tools Help
GCHQ
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  Various Locations
- Maths & Cryptography
  Cheltenham
- Advanced Technology Research
  Cheltenham

Prizes

Raspberry Pi
Win one of 100 amazing mini-computers
More

Google Nexus 7
Win one of 5 of these cutting edge tablets
More

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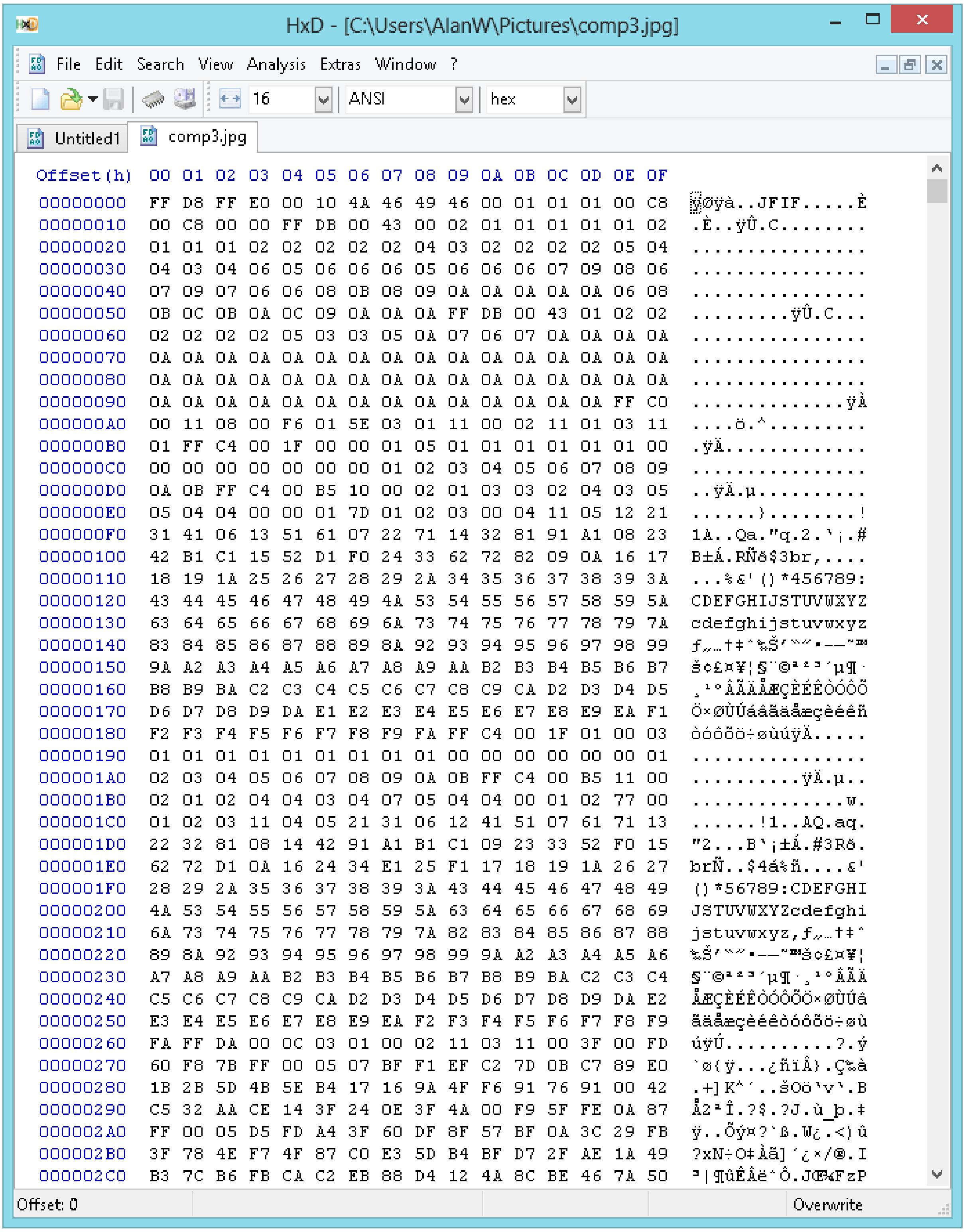
The new element is a picture. For anyone who has visited Blecthely Park they will recognise the machine shown as Colossus, the first computer which was used to crack the Enigma code in the Second World War.

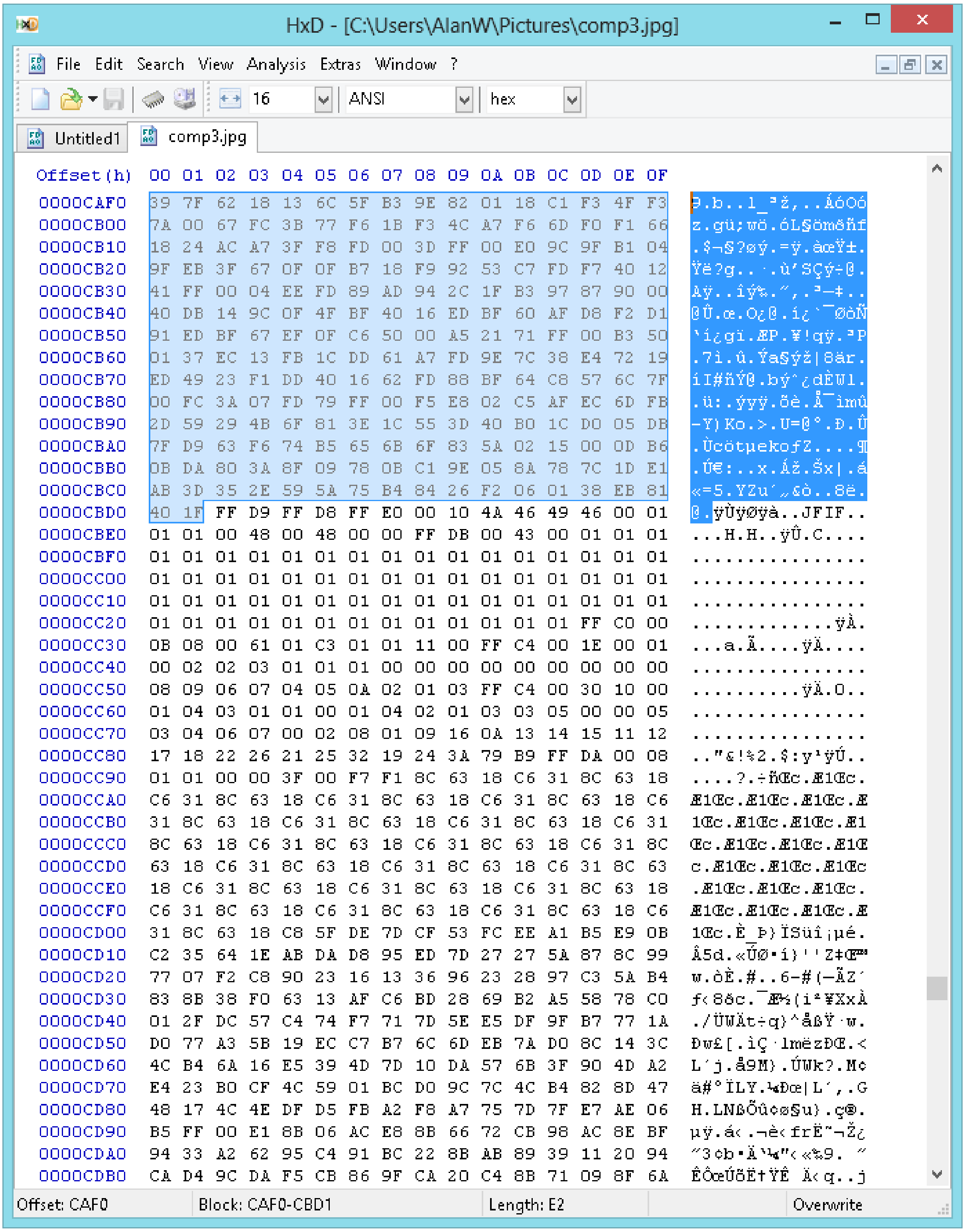
As before let’s take this image file and open it in our hex editor:



16 ANSI hex

```
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F

00000000  FF D8 FF E0 00 10 4A 46 49 46 00 01 01 01 00 C8  ÿØÿà..JFIF.....È
00000010  00 C8 00 00 FF DB 00 43 00 02 01 01 01 01 01 02  .È..ÿÛ.C........
00000020  01 01 01 02 02 02 02 02 04 03 02 02 02 02 05 04  ................
00000030  04 03 04 06 05 06 06 06 05 06 06 06 07 09 08 06  ................
00000040  07 09 07 06 06 08 0B 08 09 0A 0A 0A 0A 0A 06 08  ................
00000050  0B 0C 0B 0A 0C 09 0A 0A 0A FF DB 00 43 01 02 02  .........ÿÛ.C...
00000060  02 02 02 02 05 03 03 05 0A 07 06 07 0A 0A 0A 0A  ................
00000070  0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A  ................
00000080  0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A  ................
00000090  0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A 0A FF C0  ..............ÿÀ
000000A0  00 11 08 00 F6 01 5E 03 01 11 00 02 11 01 03 11  ....ö.^.........
000000B0  01 FF C4 00 1F 00 00 01 05 01 01 01 01 01 01 00  .ÿÄ.............
000000C0  00 00 00 00 00 00 00 01 02 03 04 05 06 07 08 09  ................
000000D0  0A 0B FF C4 00 B5 10 00 02 01 03 03 02 04 03 05  ..ÿÄ.µ..........
000000E0  05 04 04 00 00 01 7D 01 02 03 00 04 11 05 12 21  ......}........!
000000F0  31 41 06 13 51 61 07 22 71 14 32 81 91 A1 08 23  1A..Qa."q.2.‘¡.#
00000100  42 B1 C1 15 52 D1 F0 24 33 62 72 82 09 0A 16 17  B±Á.RÑð$3br‚....
00000110  18 19 1A 25 26 27 28 29 2A 34 35 36 37 38 39 3A  ...%&'()*456789:
00000120  43 44 45 46 47 48 49 4A 53 54 55 56 57 58 59 5A  CDEFGHIJSTUVWXYZ
00000130  63 64 65 66 67 68 69 6A 73 74 75 76 77 78 79 7A  cdefghijstuvwxyz
00000140  83 84 85 86 87 88 89 8A 92 93 94 95 96 97 98 99  ƒ„…†‡ˆ‰Š’“”•–—˜™
00000150  9A A2 A3 A4 A5 A6 A7 A8 A9 AA B2 B3 B4 B5 B6 B7  š¢£¤¥¦§¨©ª²³´µ¶·
00000160  B8 B9 BA C2 C3 C4 C5 C6 C7 C8 C9 CA D2 D3 D4 D5  ¸¹ºÂÃÄÅÆÇÈÉÊÒÓÔÕ
00000170  D6 D7 D8 D9 DA E1 E2 E3 E4 E5 E6 E7 E8 E9 EA F1  Ö×ØÙÚáâãäåæçèéêñ
00000180  F2 F3 F4 F5 F6 F7 F8 F9 FA FF C4 00 1F 01 00 03  òóôõö÷øùúÿÄ.....
00000190  01 01 01 01 01 01 01 01 01 00 00 00 00 00 00 01  ................
000001A0  02 03 04 05 06 07 08 09 0A 0B FF C4 00 B5 11 00  ..........ÿÄ.µ..
000001B0  02 01 02 04 04 03 04 07 05 04 04 00 01 02 77 00  ..............w.
000001C0  01 02 03 11 04 05 21 31 06 12 41 51 07 61 71 13  ......!1..AQ.aq.
000001D0  22 32 81 08 14 42 91 A1 B1 C1 09 23 33 52 F0 15  "2...B‘¡±Á.#3Rð.
000001E0  62 72 D1 0A 16 24 34 E1 25 F1 17 18 19 1A 26 27  brÑ..$4á%ñ....&'
000001F0  28 29 2A 35 36 37 38 39 3A 43 44 45 46 47 48 49  ()*56789:CDEFGHI
00000200  4A 53 54 55 56 57 58 59 5A 63 64 65 66 67 68 69  JSTUVWXYZcdefghi
00000210  6A 73 74 75 76 77 78 79 7A 82 83 84 85 86 87 88  jstuvwxyz‚ƒ„…†‡ˆ
00000220  89 8A 92 93 94 95 96 97 98 99 9A A2 A3 A4 A5 A6  ‰Š’“”•–—˜™š¢£¤¥¦
00000230  A7 A8 A9 AA B2 B3 B4 B5 B6 B7 B8 B9 BA C2 C3 C4  §¨©ª²³´µ¶·¸¹ºÂÃÄ
00000240  C5 C6 C7 C8 C9 CA D2 D3 D4 D5 D6 D7 D8 D9 DA E2  ÅÆÇÈÉÊÒÓÔÕÖ×ØÙÚâ
00000250  E3 E4 E5 E6 E7 E8 E9 EA F2 F3 F4 F5 F6 F7 F8 F9  ãäåæçèéêòóôõö÷øù
00000260  FA FF DA 00 0C 03 01 00 02 11 03 11 00 3F 00 FD  úÿÚ..........?.ý
00000270  60 F8 7B FF 00 05 07 BF F1 EF C2 7D 0B C7 89 E0  `ø{ÿ...¿ñïÂ}.Ç‰à
00000280  1B 2B 5D 4B 5E B4 17 16 9A 4F F6 91 76 91 00 42  .+]K^´..šOö‘v‘.B
00000290  C5 32 AA CE 14 3F 24 0E 3F 4A 00 F9 5F FE 0A 87  Å2ªÎ.?$.?J.ù_þ.‡
000002A0  FF 00 05 D5 FD A4 3F 60 DF 8F 57 BF 0A 3C 29 FB  ÿ..Õý¤?`ß.W¿.<)û
000002B0  3F 78 4E F7 4F 87 C0 E3 5D B4 BF D7 2F AE 1A 49  ?xN÷O‡Àã]´¿×/®.I
000002C0  B3 7C B6 FB CA C2 EB 88 D4 12 4A 8C BE 46 7A 50  ³|¶ûÊÂëˆÔ.JŒ¾FzP
```

At first it appears to be a standard jpeg file with the usual header that you would expect. However, as you scan down the file you notice there is another jpeg file header.

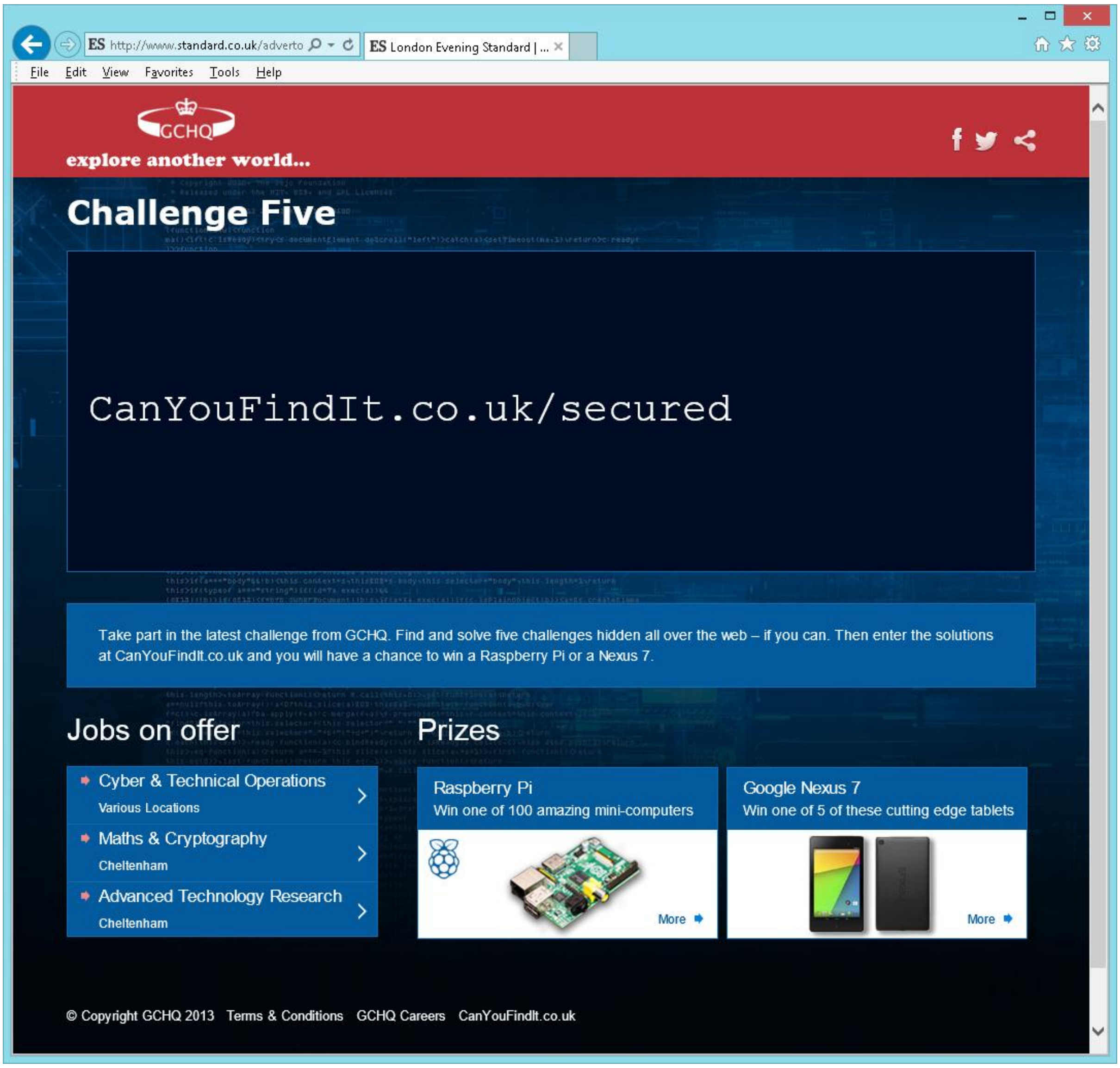


```
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F

0000CAF0  39 7F 62 18 13 6C 5F B3 9E 82 01 18 C1 F3 4F F3  9.b..l_³ž‚..ÁóOó
0000CB00  7A 00 67 FC 3B 77 F6 1B F3 4C A7 F6 6D F0 F1 66  z.gü;wö.óL§ömðñf
0000CB10  18 24 AC A7 3F F8 FD 00 3D FF 00 E0 9C 9F B1 04  .$¬§?øý.=ÿ.àœŸ±.
0000CB20  9F EB 3F 67 0F 0F B7 18 F9 92 53 C7 FD F7 40 12  Ÿë?g..·.ù’SÇý÷@.
0000CB30  41 FF 00 04 EE FD 89 AD 94 2C 1F B3 97 87 90 00  Aÿ..îý‰.”,.³—‡..
0000CB40  40 DB 14 9C 0F 4F BF 40 16 ED BF 60 AF D8 F2 D1  @Û.œ.O¿@.í¿`¯ØòÑ
0000CB50  91 ED BF 67 EF 0F C6 50 00 A5 21 71 FF 00 B3 50  ‘í¿gï.ÆP.¥!qÿ.³P
0000CB60  01 37 EC 13 FB 1C DD 61 A7 FD 9E 7C 38 E4 72 19  .7ì.û.Ýa§ýž|8är.
0000CB70  ED 49 23 F1 DD 40 16 62 FD 88 BF 64 C8 57 6C 7F  íI#ñÝ@.býˆ¿dÈWl.
0000CB80  00 FC 3A 07 FD 79 FF 00 F5 E8 02 C5 AF EC 6D FB  .ü:.ýyÿ.õè.Å¯ìmû
0000CB90  2D 59 29 4B 6F 81 3E 1C 55 3D 40 B0 1C D0 05 DB  -Y)Ko.>.U=@°.Ð.Û
0000CBA0  7F D9 63 F6 74 B5 65 6B 6F 83 5A 02 15 00 0D B6  .ÙcötµekofZ....¶
0000CBB0  0B DA 80 3A 8F 09 78 0B C1 9E 05 8A 78 7C 1D E1  .Ú€:..x.Áž.Šx|.á
0000CBC0  AB 3D 35 2E 59 5A 75 B4 84 26 F2 06 01 38 EB 81  «=5.YZu´„&ò..8ë.
0000CBD0  40 1F FF D9 FF D8 FF E0 00 10 4A 46 49 46 00 01  @.ÿÙÿØÿà..JFIF..
0000CBE0  01 01 00 48 00 48 00 00 FF DB 00 43 00 01 01 01  ...H.H..ÿÛ.C....
0000CBF0  01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01  ................
0000CC00  01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01  ................
0000CC10  01 01 01 01 01 01 01 01 01 01 01 01 01 01 01 01  ................
0000CC20  01 01 01 01 01 01 01 01 01 01 01 01 01 FF C0 00  .............ÿÀ.
0000CC30  0B 08 00 61 01 C3 01 01 11 00 FF C4 00 1E 00 01  ...a.Ã....ÿÄ....
0000CC40  00 02 02 03 01 01 01 00 00 00 00 00 00 00 00 00  ................
0000CC50  08 09 06 07 04 05 0A 02 01 03 FF C4 00 30 10 00  ..........ÿÄ.0..
0000CC60  01 04 03 01 01 00 01 04 02 01 03 03 05 00 00 05  ................
0000CC70  03 04 06 07 00 02 08 01 09 16 0A 13 14 15 11 12  ................
0000CC80  17 18 22 26 21 25 32 19 24 3A 79 B9 FF DA 00 08  .."&!%2.$:y¹ÿÚ..
0000CC90  01 01 00 00 3F 00 F7 F1 8C 63 18 C6 31 8C 63 18  ....?.÷ñŒc.Æ1Œc.
0000CCA0  C6 31 8C 63 18 C6 31 8C 63 18 C6 31 8C 63 18 C6  Æ1Œc.Æ1Œc.Æ1Œc.Æ
0000CCB0  31 8C 63 18 C6 31 8C 63 18 C6 31 8C 63 18 C6 31  1Œc.Æ1Œc.Æ1Œc.Æ1
0000CCC0  8C 63 18 C6 31 8C 63 18 C6 31 8C 63 18 C6 31 8C  Œc.Æ1Œc.Æ1Œc.Æ1Œ
0000CCD0  63 18 C6 31 8C 63 18 C6 31 8C 63 18 C6 31 8C 63  c.Æ1Œc.Æ1Œc.Æ1Œc
0000CCE0  18 C6 31 8C 63 18 C6 31 8C 63 18 C6 31 8C 63 18  .Æ1Œc.Æ1Œc.Æ1Œc.
0000CCF0  C6 31 8C 63 18 C6 31 8C 63 18 C6 31 8C 63 18 C6  Æ1Œc.Æ1Œc.Æ1Œc.Æ
0000CD00  31 8C 63 18 C8 5F DE 7D CF 53 FC EE A1 B5 E9 0B  1Œc.È_Þ}ÏSüî¡µé.
0000CD10  C2 35 64 1E AB DA D8 95 ED 7D 27 27 5A 87 8C 99  Â5d.«ÚØ•í}''Z‡Œ™
0000CD20  77 07 F2 C8 90 23 16 13 36 96 23 28 97 C3 5A B4  w.òÈ.#..6–#(—ÃZ´
0000CD30  83 8B 38 F0 63 13 AF C6 BD 28 69 B2 A5 58 78 C0  ƒ‹8ðc.¯Æ½(i²¥XxÀ
0000CD40  01 2F DC 57 C4 74 F7 71 7D 5E E5 DF 9F B7 77 1A  ./ÜWÄt÷q}^åßŸ·w.
0000CD50  D0 77 A3 5B 19 EC C7 B7 6C 6D EB 7A D0 8C 14 3C  Ðw£[.ìÇ·lmëzÐŒ.<
0000CD60  4C B4 6A 16 E5 39 4D 7D 10 DA 57 6B 3F 90 4D A2  L´j.å9M}.ÚWk?.M¢
0000CD70  E4 23 B0 CF 4C 59 01 BC D0 9C 7C 4C B4 82 8D 47  ä#°ÏLY.¼Ðœ|L´‚.G
0000CD80  48 17 4C 4E DF D5 FB A2 F8 A7 75 7D 7F E7 AE 06  H.LNßÕû¢ø§u}.ç®.
0000CD90  B5 FF 00 E1 8B 06 AC E8 8B 66 72 CB 98 AC 8E BF  µÿ.á‹.¬è‹frË˜¬Ž¿
0000CDA0  94 33 A2 62 95 C4 91 BC 22 8B AB 89 39 11 20 94  ”3¢b•Ä‘¼"‹«‰9. ”
0000CDB0  CA D4 9C DA F5 CB 86 9F CA 20 C4 8B 71 09 8F 6A  ÊÔœÚõË†ŸÊ Ä‹q..j

Offset: CAF0    Block: CAF0-CBD1    Length: E2    Overwrite
```

Someone has added a second image to the end of the main image. Using your hex editor it's a simple matter to delete everything before the second jpeg header, save the edited file and try to open this newly shortened file. What you see is this:

www.eveningstandard.co.uk/colossus

As before, you have your next answer (Colossus) and your next port of call.


http://www.standard.co.uk/adverto
ES London Evening Standard | ...
File
Edit
View
Favorites
Tools
Help
GCHQ
explore another world...

Challenge Five

CanYouFindIt.co.uk/secured

Take part in the latest challenge from GCHQ. Find and solve five challenges hidden all over the web – if you can. Then enter the solutions at CanYouFindIt.co.uk and you will have a chance to win a Raspberry Pi or a Nexus 7.

Jobs on offer

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- Maths & Cryptography
  Cheltenham
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Prizes

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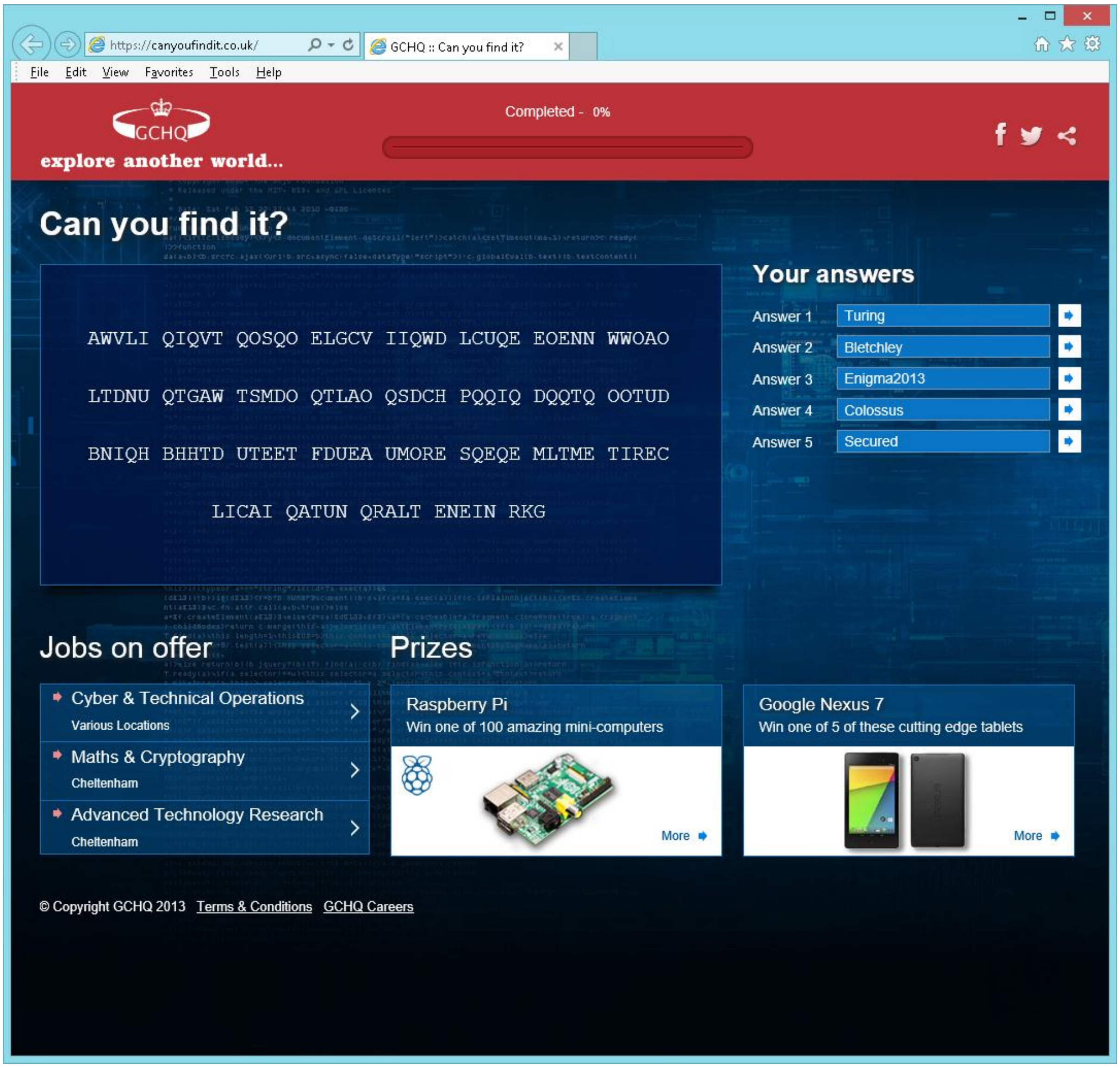
This page presents you with a URL directly, and in solving puzzles sometimes the obvious answer is the right answer. If you use this web address it takes you back to the start page, and if the pattern is maintained your final answer should be “Secured”.

Returning to the start page and typing in your answers:



Can you find it?

```
AWVLI QIQVT QOSQO ELGCV IIQWD LCUQE EOENN WWOAO

LTDNU QTGAW TSMDO QTLAO QSDCH PQQIQ DQQTQ OOTUD

BNIQH BHHTD UTEET FDUEA UMORE SQEQE MLTME TIREC

LICAI QATUN QRALT ENEIN RKG
```

Your answers

Answer 1	Turing
Answer 2	Bletchley
Answer 3	Enigma2013
Answer 4	Colossus
Answer 5	Secured

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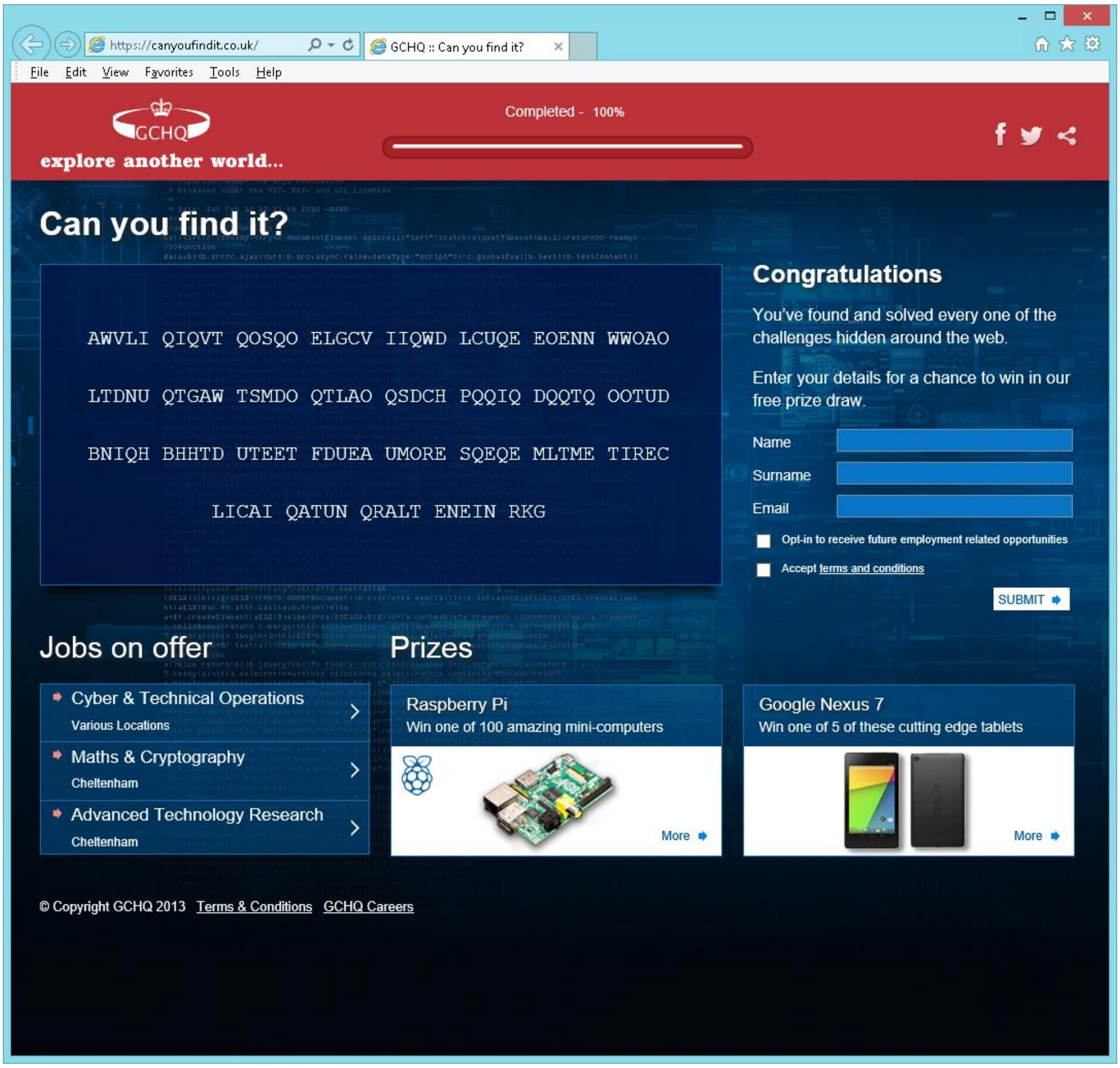
then reveals that you've followed the trail correctly and you can provide GCHQ with your contact details if you wish to be considered for a job.



Can you find it?

```
AWVLI QIQVT QOSQO ELGCV IIQWD LCUQE EOENN WWOAO

LTDNU QTGAW TSMDO QTLAO QSDCH PQQIQ DQQTQ OOTUD

BNIQH BHHTD UTEET FDUEA UMORE SQEQE MLTME TIREC

         LICAI QATUN QRALT ENEIN RKG
```

Congratulations

You've found and solved every one of the challenges hidden around the web.

Enter your details for a chance to win in our free prize draw.

Name

Surname

Email

□ Opt-in to receive future employment related opportunities

□ Accept terms and conditions

SUBMIT

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If followed the trail correctly then congratulations. If not, even following through with answer sheets like this one can help you understand the mind-set you need to work on the more complex area of communications security. I'm sure there will be more opportunities to put what you have learned to use.