

# Challenge Description

We are given a file named **Start.txt** containing a long sequence of binary values:

```
00110101 00111001 00110011 00110011 00110100 01100101 00110110 01100010 00110110  
00110101 00110011 00110001 00110110 00110011 00110111 01100001 00110110 00110010  
00110100 00110111 00110100 01100100 00110111 00110111 00110110 00110010 00110101  
00110100 00110100 01100101 00110110 00110100 01100110 00110100 00110100 00110111  
00110100 00110110 00110100 00110101 00110011 00110011 00110001 00110011  
00111000 00110011 00110011 00110100 01100100 00110100 00110110 00110011 00111001  
00110110 00111000 00110101 01100001 00110100 00111000 00110101 00111001 00110111  
01100001 00110101 00110100 00110110 01100001 00110110 00110100 00110110 00110110  
00110100 01100100 00110110 01100001 00110100 00110001 00110111 00111001 00110100  
01100101 00110101 00111000 00110011 00110000 00110011 01100100
```

## Step 1 — Convert Binary to Text

Each 8-bit binary group represents one ASCII character.

After converting all binary values into ASCII, we obtain a long **hexadecimal string**.

This means the binary was simply an encoded form of hex.

The screenshot shows a hex editor interface with two panes. The left pane, titled 'Input', displays a long sequence of binary digits. The right pane, titled 'Output', shows the resulting ASCII text. Above the input pane, there is a 'Recipe' section for 'From Binary'. It includes a 'Delimiter' dropdown set to 'Space' and a 'Byte Length' dropdown set to '8'. The output text in the right pane is:  
59334e6b6531637a62474d7762544e664f474644533138334d4639685a48597a546a64664d6a41794e58303d

## Step 2 — Convert Hex to Base64

Once we take the extracted hex string and convert it from **Hex** → **Text**, the output is **Base64-encoded data**.

The screenshot shows a software interface for data conversion. On the left, there's a 'Recipe' panel titled 'From Hex'. It has a dropdown menu set to 'Delimiter: Auto'. On the right, under 'Input', a long hex string is shown: 59334e6b6531637a62474d7762544e664f474644533138334d4639685a48597a546a64664d6a41794e58303d. Below this, the 'Output' section shows the converted base64 string: Y3Nke1czbGMwbTNf0GFDS183MF9hZHYzTjdfMjAyNX0=.

## Step 3 — Decode the Base64 String

Now we take the Base64 output and decode it using **From Base64**.

The screenshot shows a software interface for data conversion. On the left, there's a 'Recipe' panel titled 'From Base64'. It includes a dropdown menu for 'Alphabet' set to 'A-Za-z0-9+=', a checked checkbox for 'Remove non-alphabet chars', and an unchecked checkbox for 'Strict mode'. On the right, under 'Input', the previously converted base64 string Y3Nke1czbGMwbTNf0GFDS183MF9hZHYzTjdfMjAyNX0= is shown. Below this, the 'Output' section displays the decoded hex string: csd{W3lc0m3\_8aCK\_70\_adv3n7\_2025}.