Cipher Challenge 2:

This message was encrypted using columnar transposition ciphers. There are 4 different width sizes used and a blank line signals a change to a new width.

The first had a width of 5 columns and x's were used to fill out the last row so that it made a perfect rectangle. The ciphertext is written down the columns and the plaintext can be read across the rows: **If** we are separated me

i	f	W	е	а
r	е	S	е	р
a	r	а	t	е
d	m	е	Х	Х

The message is continued in the next block of ciphertext which was encrypted using a width of 8.

е	t	а	t	t	h	е	S
0	u	t	h	е	n	d	0
f	t	h	е	У	е	1	l
0	W	b	r	i	d	g	е
а	t	t	W	Х	Х	Х	х

The plaintext is: et at the south end of the yellow bridge at tw

The next block of the message was encrypted using a width of 13. Note that this time the rectangle was not filled in with x's making it harder to determine the width.

0	i	W	i	1	1	S	t	0	r	е	t	h
е	d	0	С	u	m	е	n	t	S	i	n	0
u	r	b	0	Х	а	t	0	n	е	0	h	0
n	е	m	а	r	k							

The plaintext is: o. I will store our documents in the box at one oh one Mark

The final block of the message was encrypted using a width of 21.

е	t	S	t	r	е	е	t	i	n	t	h	е	е	V	е	n	t	0	f	С
а	р	t	u	r	е	d	е	S	t	r	0	У	t	h	i	S	m	е	S	S
а	g	е	а	n	d	а	W	а	i	t	f	u	r	t	h	е	r	i	n	S
t	r	u	С	t	i	0	n	S												

The plaintext is: et Street. In the event of capture destroy this message and await further instructions.

Putting it all together we get the following plaintext :

If we are separated meet at the south end of the yellow bridge at two. I will store our documents in the box at one oh one Market Street. In the event of capture destroy this message and await further instructions.

Note:

- The address 101 Market Street is for the Federal Reserve Bank in San Francisco. The documents are stored in a safe deposit box at the bank. The "yellow bridge" referred to is the Golden Gate Bridge.
- Did you notice the column widths 5,8,13,21 form a Fibonacci sequence?