

Epreuve 4 : Bouche cousue

On Wednesday 3 March James, the secret agent, leaves on a mission and receives the code:

4 5 1 3 2

To code their messages the secret service uses a coding cylinder. The net of the cylinder is given in the annexe. Each letter or symbol is replaced by a number with a coloured background:

- the number gives the column of the cylinder
- the colour gives the row.

Here is the net of the coding cylinder for Wednesday 3 March.

3	4	5	6	1	2
A	Z	E	R	T	Y
U	I	O	P	Q	S
D	F	G	H	J	K
L	M	W	X	C	V
B	N	,	;	-	!
?	'	Espace	()	@

Today the letter V is coded as 2

The code 6 means the letter H

The numbers on the columns change every day.

Column 1 becomes column 2, column 2 becomes column 3 and so on until column 6 becomes column 1.

The day James's mission ended was also a Wednesday and James re-sent the original message now coded as:

1 2 4 6 5

It took less than a month to carry out his mission.

How many days did his mission take?