```
0 0 -2 0
4 2
3 1
-1 0
5 0
0 2

Output：
Starting position for each column of B:
0 3
A * B:
3 2 5
0 0 -3
0 1 2
1 0 14
1 1 8
2 0 -10
```

2. KMP algorithm

Please implement the failure function of the KMP algorithm to preprocess a given pattern P, and use this algorithm to compare the string T and pattern P, which are stored in a separate 1-D array (index starts with 0). You should print out the result of failure function F first. If the pattern P is found in string T, you should output (Yes,x,y), where x and y represent the starting and ending char address in String T. If patter P cannot be found in string T, you should output (Not found).

Test Case

Please test your program with Input, and then check the answers with Output.

Listing 2 : KMP algorithm

```
Input：
T : A A B Z A B Z A B C Z
P : A B Z A B C

Output：
F : -1 -1 -1 0 1 -1
Yes,4,9
```