

## HELP BOB

BOB has to go to market to purchase an item. He has his money with which he wants to purchase the item in form a string where each character of the string represents a coin.

The string contains only the one digit natural numbers where each character represents the value of coin. The item which BOB has to purchase has a cost C.

BOB can only purchase the item if his string has atleast n subsequence which have the sum of values of coins equal to the cost C.

You have to help BOB purchasing the item, check weather BOB can purchase the item or not.

INPUT:

- The first line contains an integer T the number of test cases ( $0 \leq T \leq 100$ )
- Each test case contains the value of the cost of the item ( $0 \leq C \leq 10000$ ) and the value n ( $0 \leq n \leq 1000$ ) in the first line
- And the string s in the second line ( $0 \leq |s| \leq 1000$ )

OUTPUT:

- For each test case print "YES" without quotes if BOB can purchase the item "NO" otherwise without quotes.

Sample Test Case :

Input

1

5 2

22345

Output

YES

Note: the possible combinations are {2,3} {2,3} {5}.

*\*You have to solve the question in  $O(N*Cost)$  time complexity\**