**Question 6 : Choco and chocolate**

**Problem Statement :**

Choco, a chocolate lover, has N amount of money with him. He wants to buy as much chocolate as possible. So, he goes to a chocolate shop “Bandyman ”. Mike, the owner of “Bandyman ” has different types of chocolate in his store (represented by a character) placed in a row.

Mike, give an offer to Choco that he can buy a selected type of chocolate for free and need to pay for the other types of chocolates and Choco can only buy consecutive chocolates.

Now, you need to write a code to find the maximum amount of chocolates Choco can get by selecting the chocolates optimally.

**Input format :**

1st line contains 2 space separated integers A and B denoting the number of chocolates and the amount of money Choco has.

The 2nd line contains A chocolates represented by a string. All chocolates represented by lowercase alphabets.

The 3rd line represents 26 space separated integers representing the cost to buy the chocolates.  
[First integer represents the cost of the chocolate of type ‘a’, 2nd integer represents the cost of the chocolates of type ‘b’ and so on]

**Output format :**

Print the maximum number of chocolates Choco can buy.

**Constraints :**  
1<=A<=10^5  
1<=B<=10^9  
1<=cost of chocolate<=10^9

**Sample input 1 :**

6 10  
aabcda  
5 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

**Sample output 1 :**  
4

**Explanation :**

Choco can select the chocolate of type ‘a’ for free and start buying from index 0 and if he buys “aabc” then he has to pay less (0+0+4+4=8) than the total money he has.

This is the maximum number of chocolates he can get in this case.