

→ dbca, no of friend = 2?

Idea: Give Every friend 1 Value, & give max Value to just One friend

Eg: dbca  
↓  
Max no of Value to friend 1  
↳ 1 Value to friend 2

So we can calculate the split like

4 character → I need to provide 1 Value to 1 friend

so we can how many character the remaining friend gets

$$4 - 1 = 3$$

↓

$$W - (n_f - 1)$$

↳ because this One friend gets max Value  
↳ They get single character

Now we can go on & keep splitting the Value

↳ we try to do different splits because we want max

Value

→ dbca → dbc, bca [ These can be the 2  
Value 1 friend can hold.

Out of the lexicographically largest is dbc