Problem Link:

<https://leetcode.com/problems/maximum-score-from-removing-substrings/?envType=daily-question&envId=2025-07-23>

Solution:

class Solution {

public:

int maximumGain(string s, int x, int y) {

if(x < y)

{

swap(x, y);

for(char& c : s)

{

if(c == 'a')

c = 'b';

else if(c == 'b')

c = 'a';

}

}

int total = 0;

stack<char> stk;

string t;

for(char c : s)

{

if(!stk.empty() && stk.top() == 'a' && c == 'b')

{

stk.pop();

total += x;

}

else

{

stk.push(c);

}

}

while(!stk.empty())

{

t += stk.top();

stk.pop();

}

reverse(t.begin(), t.end());

for(char c : t)

{

if(!stk.empty() && stk.top() == 'b' && c == 'a')

{

stk.pop();

total += y;

}

else

{

stk.push(c);

}

}

return total;

}

};