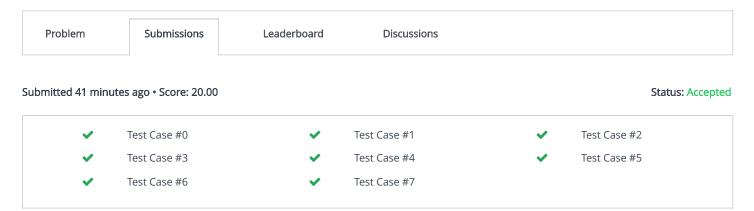
All Contests > Assignment 03 | Basic Data Structures | Batch 03 > Valid String

Valid String



Submitted Code

```
Language: C++20
                                                                                                   P Open in editor
1 #include <bits/stdc++.h>
2 using namespace std;
4 int main()
5 {
6
       int t;
7
       cin >> t;
8
       while (t--)
9
           string str;
10
11
           cin >> str;
12
           stack<char> st;
13
           for (char c : str)
14
15
                if (c == 'A')
16
17
18
                    if (!st.empty())
19
20
                         if (st.top() == c)
21
22
                             st.push(c);
23
                         }
24
                         else
25
                         {
26
                             st.pop();
27
28
                    }
29
30
                    else
31
                    {
32
                         // stack khali
                         st.push(c);
```

```
34
35
                }
36
37
                 if (c == 'B')
38
39
                     if (!st.empty())
40
                     {
41
                          if (st.top() == c)
42
                          {
43
                              st.push(c);
                          }
44
45
                          else
46
                          {
47
                              st.pop();
                          }
48
                     }
49
50
51
                     else
52
                     {
53
                          // stack khali
54
                          st.push(c);
55
                     }
56
                }
57
            }
58
59
            // while(!st.empty())
            // {
60
                    cout<<st.top()<<" ";
61
            //
            //
62
                    st.pop();
            // }
63
64
            if (st.empty())
65
            {
66
                 cout << "YES" << endl;</pre>
            }
67
68
69
            else
                 cout << "NO" << endl;</pre>
70
71
       }
72
73
        return 0;
74 }
```

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