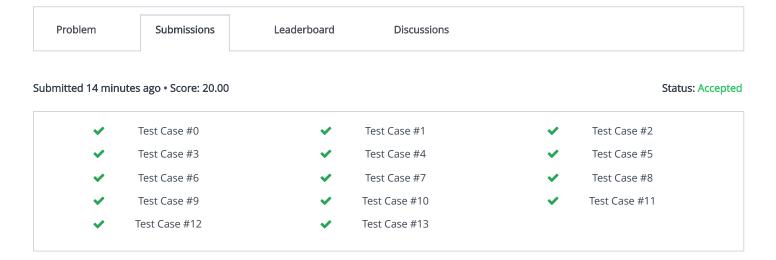
All Contests > Final Exam | Introduction to Algorithms | Batch 03 > Exam Marks II

Exam Marks II



Submitted Code

```
P Open in editor
 Language: C++20
1 #include <bits/stdc++.h>
2 using namespace std;
3 int main()
4 {
       int t;
5
       cin >> t;
6
7
       for (int i = 0; i < t; i++)
8
9
           int n;
10
11
           cin >> n;
           int S, M;
12
           cin >> M;
13
14
15
           int ar[n];
16
           for (int i = 0; i < n; i++)
17
               cin >> ar[i];
18
19
20
           S = 1000 - M;
21
22
           bool dp[n + 1][S + 1];
           dp[0][0] = true;
23
           for (int i = 1; i <= S; i++)
24
25
               dp[0][i] = false;
26
27
           }
28
29
           for (int i = 1; i <= n; i++)
30
```

```
for (int j = 0; j \le S; j++)
31
32
                 {
33
                     if (ar[i - 1] <= j)
34
                     {
35
                         bool op1 = dp[i][j - ar[i - 1]];
36
                         bool op2 = dp[i - 1][j];
37
                         dp[i][j] = op1 || op2;
38
                     }
39
                     else
40
                     {
                         dp[i][j] = dp[i - 1][j];
41
42
                }
43
            }
44
45
                   for(int i = 0; i<=n; i++)
46
47
                       for(int j = 0; j<=S; j++)
48
49
                            cout<<dp[i][j] <<" ";
50
51
52
                       cout<<endl;</pre>
            //
53
            //
                  }
54
                   cout<<endl<<dp[n][S]<<endl;</pre>
55
56
57
            if (dp[n][S])
58
59
                cout << "YES" << endl;</pre>
            }
60
61
            else
62
            {
63
                cout << "NO" << endl;
64
65
       }
66
       return 0;
67 }
68
```

Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy |