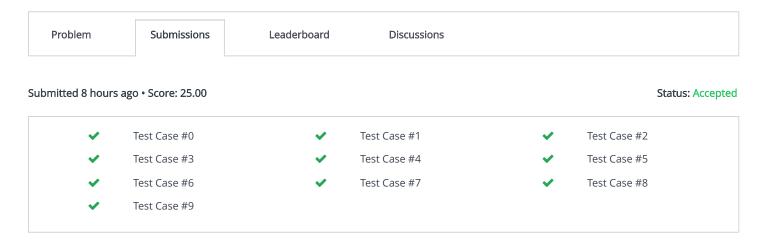
All Contests > Assignment 04 | Introduction to Algorithms | Batch 03 > Make It

## Make It



## **Submitted Code**

```
Language: C++20
                                                                                                P Open in editor
1 #include <bits/stdc++.h>
2 using namespace std;
4 const int N = 1e5 + 7;
5 int dp[N];
7 bool knapsack(int n, int S)
8 {
9
       if (n == S)
10
11
           return true;
12
13
       if(n > S)
14
15
16
           return false;
17
18
19
       if(dp[n] != -1)
20
21
           return dp[n];
22
       }
23
24
       if (n <= S)
25
26
           bool choice1 = knapsack(n + 3, S);
27
           bool choice2 = knapsack(n * 2, S);
28
           dp[n] = (choice1 or choice2);
29
30
           return dp[n];
31
```

```
return dp[n];
33
34
35
36 }
37
38 int main()
39 {
40
41
       int t;
       cin >> t;
42
43
       while (t--)
44
45
           int S;
46
47
           cin >> S;
48
49
           for(int i = 0; i<=S; i++)
50
51
                dp[i] = -1;
           }
52
53
54
           if (knapsack(1, S))
                cout << "YES" << endl;
55
56
           else
                cout << "NO" << endl;</pre>
57
58
       }
59
60
       return 0;
61 }
```

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