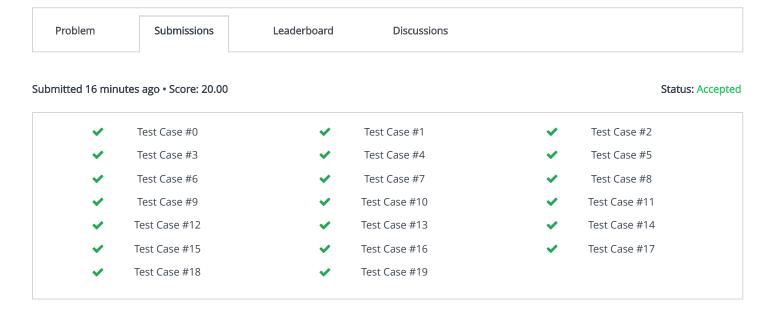
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All Contests > Final Exam | Introduction to Algorithms | Batch 03 > Exam Marks III

## **Exam Marks III**



## **Submitted Code**

```
Language: C++20
                                                                                                P Open in editor
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 int n,s, S;
5 int ar[1005];
6 int dp[1005][1005];
8 int main()
9 {
10
11
       int t;
       cin >> t;
12
13
       for (int k = 0; k < t; k++)
14
15
16
           cin >> n;
           cin >> s;
17
           for (int i = 0; i < n; i++)
18
19
               cin >> ar[i];
20
21
22
           S = 1000-s;
23
24
           dp[0][0] = 0;
           for (int i = 1; i <= S; i++)
25
26
           {
               dp[0][i] = INT_MAX - 1;
27
```

```
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```

```
}
28
29
30
            for (int i = 1; i <= n; i++)
31
                for (int j = 0; j <= S; j++)
32
33
                     if (ar[i - 1] <= j)
34
35
                     {
                         dp[i][j] = min(1 + dp[i][j - ar[i - 1]], dp[i - 1][j]);
36
                     }
37
38
39
                     else
40
                     {
                         dp[i][j] = dp[i - 1][j];
41
                     }
42
                }
43
            }
44
45
46
            if (dp[n][S] == INT_MAX - 1)
47
                cout << -1 << endl;
48
49
            }
50
            else
51
            {
52
                cout << dp[n][S] << endl;</pre>
53
           }
54
55
            // for (int i = 0; i <= n; i++)
56
            // {
57
                    for (int j = 0; j \le S; j++)
            //
58
59
                        if (dp[i][j] == INT_MAX - 1)
60
                             cout << "X"
61
                                  << "";
62
                        }
63
64
                        else
65
                        {
66
                             cout << dp[i][j] << " ";</pre>
67
            //
                    }
68
            //
            //
69
                    cout << endl;</pre>
            // }
70
71
       }
72
73
       return 0;
74 }
```

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