

[*] TESTCODE.cpp testcode.cpp

```
1  #include<bits/stdc++.h>
2  #include<vector>
3  using namespace std;
4
5  vector<int> dp;
6
7  int f(int n,int m,int b[])
8  {
9      if(n == 0) return 0;
10     if(dp[n] != 0) return dp[n];
11
12     int a = INT_MAX;
13     for(int i=0;i<m;i++)
14         if(n - b[i] >= 0) a = min(a,f(n-b[i],m,b) + 1);
15
16     dp[n] = a;
17
18     return dp[n];
19 }
20
21 main()
22 {
23     ios_base::sync_with_stdio(0);
24     cin.tie(0);
25
26     int n,m;
27     cin>>n>>m;
28
29     int b[m];
30
31     for(int i=0;i<n+1;i++)
32         dp.push_back(0);
33
34     for(int i=0;i<m;i++)
35         cin>>b[i];
36
37     cout<<f(n,m,b);
38 }
```