```
1 #include <bits/stdc++.h>
2 #define ll long long
3 #define rep(i, n) for (int i = 0; i < n; ++i)
4 using namespace std;
5 typedef pair<int,int> P;
6 map<int,P> hun;//
7 set<int> kouho;
8 vector<int> del;
9 int main()
10 {
       while (1)
11
12
13
           hun.clear();
14
           kouho.clear();
15
           int n, m;
16
           cin >> n >> m;
17
           if (n == 0)
18
                break;
19
           int num[11] = {};
20
           int a[100];
21
           int w[10];
22
            for(int i=0;i<n;i++)</pre>
23
                cin>>a[i];
24
            for(int i=0;i<m;i++)</pre>
25
                cin>>w[i];
26
           //0 notuse
27
           //1 left
28
           //2 right
29
           for (int i = 0; i < pow(3, m)+1; i++)
30
31
                num[0]++;
32
                for (int j = 0; j < m; j++)
33
34
                    if (num[j] == 3)
35
                    {
36
                        num[j + 1]++;
37
                        num[j] = 0;
                    }
38
39
                }
40
                int l = 0;
41
                int r = 0;
                for (int j = 0; j < m; j++)
42
43
                {
44
                    if (num[j] == 1)
45
                        l +=w[j];
46
                    else if(num[j]==2)
47
                        r+=w[i];
                    hun[abs(r-l)]=P(l,r);
48
49
                }
           }
50
51
           cout << "----hun-----"<<endl;</pre>
52
53
            for (auto &&e: hun) {
54
                cout<<e.first<<endl;</pre>
55
            cout<<"end-----"<<endl;
56
            */
57
            //input end
58
59
            int ans=2;
           bool f=false;
```

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                                                            C.cpp
  61
              for(int i=0;i<n;i++)</pre>
  62
              {
                   if (hun.count(a[i])>0)
  63
  64
                       continue;
                   if(!f)
  65
  66
                   {
  67
                       f=true;
  68
                       for (auto &&e: hun) {
  69
                            int tmp = abs(a[i] + e.second.second - e.second.first);
  70
                           kouho.insert(tmp);
  71
                           tmp = abs(a[i] + e.second.first - e.second.second);
  72
                           kouho.insert(tmp);
  73
                       // for (auto &&k: kouho) cout << k << endl;</pre>
  74
  75
                   }else{
                       del.clear();
  76
                       for(auto &&k: kouho) {
  77
  78
                           bool g=false;
  79
                           for (auto &&h: hun) {
  80
                                if (abs(h.second.first + k - h.second.second) == a[i] ||
     abs(h.second.second + k - h.second.first) == a[i])
  81
  82
                                    g=true;
  83
                                    break;
  84
                                }
  85
                           if(!g)
  86
                                del.push_back(k);
  87
  88
  89
                       //delete
                       for(int j=0;j<del.size();j++)</pre>
  90
  91
                           kouho.erase(del[j]);
  92
                       if(kouho.size()==0)
  93
  94
                           ans=-1;
  95
                           break;
  96
  97
                   }
  98
  99
              if(ans==-1)
 100
                   cout<<-1<<endl;</pre>
              else{
 101
                   if(!f)
 102
 103
                       cout<<0<<endl;
 104
                   else
 105
                       cout<<*kouho.begin()<<endl;</pre>
              }
 106
 107
          }
 108 }
```

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