## Submission

ID	DATE	PROBLEM	STATUS	СРИ	LANG
	TEST CASES				
8199531	04:01:46	Button Bashing	<b>✓</b> Accepted	0.01 s	C++

Submission contains 1 file:

download zip archive

FILENAME	FILESIZE	SHA-1 SUM	
buttonbashing.cpp	1266 bytes	5915acac1b0e1a06bc521f4e5a6b0f7ef19af186	download

Edit and resubmit this submission.

## buttonbashing.cpp

```
//https://open.kattis.com/problems/buttonbashing
   #include<bits/stdc++.h>
 3 std::vector<int> adj_list;
   std::vector<int> buttons;
   class ButtonBash{
 6
   public:
 7
      void BFS()
 8
 9
        std::queue<int> q;
10
        q.push(0);
11
        while (!q.empty())
12
          int u = q.front();
13
14
          q.pop();
15
          for (auto &v : buttons)
16
            int selected = u + v;
17
            selected = fmin(3600, fmax(0, selected));
if (adj_list[selected] > adj_list[u] + 1)
18
19
20
               adj_list[selected] = adj_list[u] + 1;
21
22
               q.push(selected);
23
24
25
        }
      }
26
27
28
    int main(){
29
30
      std::ios_base::sync_with_stdio(false);
31
      std::cin.tie(NULL);
32
      ButtonBash b1=ButtonBash();
33
      int cases;
34
      std::cin >> cases;
      for (int i = 0; i < cases; i++)
35
36
    (? Help ns.clear();
37
38
             rist.assign(3601, 1e9);
        adj_list[0] = 0;
39
        int number;
40
```

```
41
        int duration;
42
        std::cin >> number >> duration;
43
        for (int j = 0; j < number; j++)
44
45
          int input;
46
          std::cin >> input;
          buttons.push_back(input);
47
48
49
        b1.BFS();
        for (int j = duration; j < 3601; j++)</pre>
50
51
          if (adj_list[j] != 1e9)
52
53
            std::cout << adj_list[j] << " " << j - duration << "\n";
54
55
            break;
56
          }
57
        }
58
     }
59 }
```

