Q1: Andrew and Rotation

Solution:

#include<bits/stdc++.h>

using namespace std;

typedef pair<int,int> ii;

typedef vector<int> vi;

typedef vector<bool> vb;

typedef vector<vi> vvi;

typedef vector<ii> vp;

typedef unordered\_map<int,int> umap\_ii;

typedef unordered\_map<char,int> umap\_ci;

typedef unordered\_map<string,int> umap\_si;

typedef unsigned long long int ull;

typedef pair<int,int> ii;

#define int long long

#define fi first

#define se second

#define INF 0x3f3f3f3f

#define PI 3.1415926535897932384626

#define MOD 1000000007

#define pb push\_back

#define uset unordered\_set

#define pq\_max priority\_queue<int>

#define pq\_min priority\_queue<int,vector<int>,greater<int>>

#define mp make\_pair //Better use {}

#define size5 100010

#define fast\_io ios\_base::sync\_with\_stdio(false);cin.tie(NULL);

```
#define sublimeProblem
```

freopen("input.txt", "r", stdin); freopen("output.txt", "w", stdout);

```
int32_t main()
{
  fast_io;
  // IO Problem;
  int n;
  cin>>n;
  vi arr;
  int mn=INT_MAX;
  int mx = INT_MIN;
  for (int i = 0; i < n; ++i) {
    int x; cin>>x;
    arr.pb(x);
    mn = min(mn, x);
    mx = max(mx, x);
  }
  // cout<<mn<<" "<<mx<<endl;
  int diff =mx - mn;
  diff %= n;
  for( int x : arr){
    if(x == mn){
      rotate(arr.begin(), arr.begin()+arr.size()-diff, arr.end());
      break;
    }
    else if( x == mx){
      rotate(arr.begin(), arr.begin()+diff, arr.end());
```

```
break;
}

for( int x: arr){
    cout<<x<<" ";
}

return 0;
}</pre>
```

```
Q2: Limak and Tests
Solution:
* Author : Ajay Panchal
* B.TECH CSE STUDENT
* LOVELY PROFESSIONAL UNIVERSITY
* BATCH: 2018-2022
* GITHUB LINK: https://github.com/ajay-panchal-099
* PROBLEM STATEMENT:
*/
#include <bits/stdc++.h>
using namespace std;
signed main() {
  int q;
  cin >> q;
  deque<int> st;
  int pos = 1;
  for (int i = 0; i < q; ++i) {
    int type;
    cin >> type;
    switch (type) {
      case 1:
        int ele;
        cin >> ele;
        if (pos == 1)st.push_back(ele);
        else st.push_front(ele);
        break;
```

```
case 2:
       if(st.empty())break;
       if (pos == 1)st.pop_back();
       else st.pop_front();
       break;
    case 3:
       if(st.empty())break;
       if (pos == 1)st[st.size() - 1] += 5;
       else st[0] += 5;
       break;
    case 4:
       if(st.empty())break;
       if (pos == 1)st[st.size() - 1] -= 5;
       else st[0] -= 5;
       break;
    case 5:
       pos = 1 - pos;
       break;
  }
}
int ans = 0;
for(auto x : st)ans += x;
cout << ans << endl;</pre>
return 0;
```

}