```
#include <bits/stdc++.h>
 2
     using namespace std;
 3
     int w;
 4
     vector<int> car;
 5
     int dp[10001][10001];
 6
7
     int solve(int current,int s1,int s2){
          if(current>=car.size())return dp[s1][s2] = OLL;
 8
 9
          if(dp[s1][s2]!=-1) return dp[s1][s2];
10
11
          int ans = 0;
12
          if(car[current]+s1 <= w)</pre>
13
               ans = max(solve(current+1,s1+car[current],s2)+1,ans);
14
          if(car[current]+s2 <= w)</pre>
15
              ans = max(solve(current+1,s1,s2+car[current])+1,ans);
16
17
          return dp[s1][s2] = ans;
18
19
     void print(int current, int s1, int s2){
20
21
22
          if(current>=car.size()) return;
          if(s1+car[current] \le and dp[s1][s2] - 1 == dp[s1+car[current]][s2]){
23
              printf("port\n");
24
25
26
27
28
29
30
31
32
33
34
35
36
              print(current+1,s1+car[current],s2);
          else if(s2+car[current] <=w and dp[s1][s2]-1 == dp[s1][s2+car[current]]){
    printf("starboard\n");</pre>
              print(current+1,s1,s2+car[current]);
          }
     main(){
          int n,aux;
scanf("%d",&n);
          for(int k=0; k<n; k++){</pre>
37
              scanf("%d",&w);
38
              w*=100;
39
              while(scanf("%d",&aux) and aux){
40
                   car.push back(aux);
41
              }
42
              memset(dp,-1,sizeof dp);
43
              printf("%d\n", solve(0,0,0));
44
45
              print(0,0,0);
46
               car.clear();
47
              if(k<n-1)
                   puts("");
48
49
          }
50
     }
51
```