

```
1 class Solution {
2 public:
3     unordered_map<long long, bool>mp;
4
5
6     bool canWin(string& s) {
7         int n = s.size();
8         long long msk = 0;
9
10        for(int i=0;i<n;i++){
11            if(s[i]=='+')
12                msk+=(1LL<<i);
13        }
14
15        if(mp.count(msk)){
16            return mp[msk];
17        }
18
19        for(int i=0;i<n-1;i++){
20            if(s[i]==s[i+1] && s[i]=='+'){
21                s[i] = '-';
22                s[i+1] = '-';
23
24                bool flg = false;
25                if(canWin(s)==false){
26                    flg = true;
27                }
28
29                s[i] = '+';
30                s[i+1] = '+';
31                if(flg){
32                    mp[msk] = true;
33                    return true;
34                }
35            }
36        }
37        mp[msk] = false;
38        return false;
39    }
40};
```