Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8091343	22:32:33	Stack Construction	✔ **Accepted**	0.15 s	C++
	✔✔✔				

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FILENAME	FILESIZE	SHA-1 SUM	
stack.cpp	1036 bytes	d0105bcd3411d8f817f2accf74638cf9078ae24a	download

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stack.cpp

```
1  #include <bits/stdc++.h>
2
3  #define EMPTY -99999
4  #define INF 999
5
6  using namespace std;
7
8  int mem[INF][INF];
9  string input;
10
11        et(){
12     int i=0; i<INF; i++){
13        for(int j=0; j<INF; j++)
14            mem[i][j] = EMPTY;
```

```cpp
15        }
16  }
17
18  int stackConstruction(int idx1, int idx2) {
19      if (idx1 > idx2) {
20          return 0;
21      }
22      else{
23          if (mem[idx1][idx2] == EMPTY) {
24              mem[idx1][idx2] = stackConstruction(idx1, idx2-1) + 1;
25
26              int i=idx1;
27
28              while(i<idx2){
29
30                  if (input[i] == input[idx2]){
31
32                      int aux = stackConstruction(idx1,i) + stackConstruction(i+1,idx2-1);
33
34                      mem[idx1][idx2] = min(mem[idx1][idx2], aux);
35                  }
36                  i++;
37              }
38          }
39
40          return mem[idx1][idx2];
41      }
42
43  }
44
45  int main() {
46      int n;
47      cin >> n;
48      int res;
49
50      cin.ignore();
51
52      for(int i=0; i<n; i++){
53          reset();
54          getline(cin,input);
55          int aux = stackConstruction(0, input.size()-1);
56          res = aux*2 + input.size();
57          cout<<res<<endl;
58      }
```

Help

```
59        return 0;
60 }
```