



**Input a string of size n and update all the odd positions in the string to character '#'. Consider 0-based indexing.**

```
string1 >  assignment1.cpp >  main()
1  #include<iostream>
2  #include<string>
3  using namespace std;
4  int main(){
5      string str;
6      int n;
7      cout<<"enter the length: ";
8      cin>>n;
9      for(int i=0;i<=n-1;i++){
10         char ch;
11         cin>>ch;
12         str.push_back(ch);
13     }
14     cout<<str<<endl;
15     for(int i=0;i<=n-1;i++){
16         if(i%2==0) str[i]= '#';
17     }
18     cout<<str;
19 }
```


**Input a string of length n and count all the consonants in the given string.**

```
string1 > G+ assignment2.cpp > ...
1  #include<iostream>
2  #include<string>
3  using namespace std;
4  int main(){
5      string str;
6      getline(cin,str);
7      int count=0;
8      for(int i=0;i<str.length();i++){
9          if(str[i]=='a' || str[i]=='A'){count++;}
10         if(str[i]=='e' || str[i]=='E'){count++;}
11         if(str[i]=='i' || str[i]=='I'){count++;}
12         if(str[i]=='o' || str[i]=='O'){count++;}
13         if(str[i]=='u' || str[i]=='U'){count++;}
14     }
15     cout<<count;
16 }
```




# Check whether the given string is palindrome or not.

```
string1 > G+ assignment3.cpp > main()
1  #include<iostream>
2  #include<string>
3  using namespace std;
4  bool ispalindrome(string str){
5      int i=0;
6      int j=str.length()-1;
7      while(i<j){
8          if(str[i]!=str[j]) return false;
9          i++;
10         j--;
11     }
12     return true;
13 }
14 int main(){
15     string str;
16     cout<<"enter the string: ";
17     getline(cin,str);
18     if(ispalindrome(str)==true){
19         cout<<"the string is palindrome.";
20     }
21     else{cout<<"the string is not palindrome.";
22     }
23 }
```




**Input a string of even length and reverse the second half of the string.**

```
string1 >  assignment4.cpp > ...
1  ∨ #include<iostream>
2    #include<string>
3    using namespace std;
4  ∨ int main(){
5      string str;
6      getline(cin,str);
7      int n = str.length();
8      int i =n/2;
9      int j= n-1;
10 ∨  while(i<j){
11      swap(str[i],str[j]);
12      i++;
13      j--;
14      }
15      cout<<str;
16  }
```

**Input a string of length less than 10 and convert it into integer without using builtin function.**

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```
string1 >  assignment5.cpp > ...  
1  #include<iostream>  
2  #include<string>  
3  using namespace std;  
4  int main(){  
5      string str;  
6      getline(cin,str);  
7      int x=0;  
8      for(int i=0;i<str.length()  
9          |    x *=10;  
10         |    x += (str[i]-48);  
11         |  
12         |    cout<<x;  
13     }
```