

شایان گلمحمدی - تهران مرکز - ورودی 99 - یکشنبه ساعت 7:30

تمرین ارسال رشته به توابع :

تمرین ها :

۱-

```
char name[]={'c','o','m','p','u','t','e','r','\0'};
```

۲-

```
fadcxm
```

(رشته را برعکس میکند.)

```

1  #include <iostream>
2  #include <string>
3  using namespace std;
4  void reverse(char * st){
5      int i=0,j=0;
6      while(st[i]!='\0'){
7          i++;
8      }
9      char temp[i+1];
10     temp[i]='\0';
11     i--;
12     while(i>=0){
13         temp[j]=st[i];
14         i--;
15         j++;
16     }
17     *st=temp;
18 }
19 int main(){
20     cout<<endl;
21     int n;
22     cout<<"input string size : ";
23     cin>>n;
24     char st[n+1];
25     cout<<"input the string : ";
26     for (int i=0;i<n;i++){
27         cin>>st[i];
28     }
29     st[n]='\0';
30     reverse(st);
31     cout<<endl<<st<<endl;
32     return 0;
33 }

```

```

input string size : 5
input the string : salam

malam

Press any key to continue . . .

```

```

1  #include <iostream>
2  #include <string>
3  using namespace std;
4  int main()
5  {
6      cout<<endl;
7      string a;
8      int n,vowels=0,capital=0,small=0,num=0;
9      cout<<"Input the text :"<<endl<<endl;
10     getline(cin,a);
11     n=a.length();
12     for (int i=0;i<n;i++){
13         if (a[i]=='a' || a[i]=='e' || a[i]=='i' || a[i]=='o' || a[i]=='u' || a[i]=='A' || a[i]=='E' || a[i]=='I' || a[i]=='O' || a[i]=='U'){
14             vowels++;
15         }
16         if (a[i]>=48 && a[i]<=57){
17             num++;
18         }
19         if (a[i]>=65 && a[i]<=90){
20             capital++;
21         }
22         if (a[i]>=97 && a[i]<=122){
23             small++;
24         }
25     }
26     cout<<endl<<"Vowels : "<<vowels;
27     cout<<endl<<"Capitals : "<<capital;
28     cout<<endl<<"small : "<<small;
29     cout<<endl<<"Numbers : "<<num<<endl;
30     return 0;
31 }

```

Input the text :

1 Planet , 7 continet , 195 countries , 7.8 billion humans and NO PEACE !

Vowels : 19  
Capitals : 8  
small : 38  
Numbers : 7

Press any key to continue . . .

```

1  #include <iostream>
2  #include <string>
3  using namespace std;
4  int main()
5  {
6      cout<<endl;
7      string a;
8      int n,sum=0;
9      cout<<"Input the text :"<<endl<<endl;
10     getline(cin,a);
11     n=a.length();
12     for (int i=0;i<n;i++){
13         if (a[i]>=48 && a[i]<=57){
14             sum+=a[i]-'0';
15         }
16     }
17     cout<<endl<<"Sum : "<<sum<<endl;
18     return 0;
19 }

```

Input the text :

1 Planet , 7 continet , 195 countries , 7.8 billion humans and NO PEACE !

Sum : 38

Press any key to continue . . .