

شایان گل محمدی - تهران مرکز - ورودی 99 - یکشنبه ساعت 7:30

تمرینات فصل توابع :

تمرین ها :

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14
15
28

-۲

14
15
28

-۳

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4 int secret(char a)
5 {
6     if (a=='a' || a=='e' || a=='i' || a=='o' || a=='u' || a=='A' || a=='E' || a=='I' || a=='O' || a=='U'){
7         return true;
8     } else {return false;}
9 }
10 int main(){
11     cout<<endl;
12     char a;
13     cout<<"Input the character : "<<endl;
14     cin>>a;
15     cout<<secret(a);
16     return 0;
17 }
18
```

8 : 3 — Konsole

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Input the character :
a
1

-f

```
1 #include <iostream>
2 #include <iomanip>
3 #include <limits>
4 using namespace std;
5 float reverse(float a)
6 {
7     int b,bb=0,cc=0,d;
8     long double c,e;
9     b=int(a);
10    c=a;
11    c=double(c-int(c));
12    while (c-(int(c))!=0){
13        c=double(c*10);
14    }
15    d=int(c);
16    while (b>0){
17        bb = bb*10 + b%10;
18        b=b/10;
19    }
20    while (d>0){
21        cc = cc*10 + d%10;
22        d=d/10;
23    }
24    e=bb;
25    while (bb>0){
26        e=e/10;
27        bb=bb/10;
28    }
29    e=e+cc;
30    return e;
31 }
32 int main(){
33     cout<<endl;
34     long double a;
35     cin>>a;
36     cout<<endl<<reverse(a)<<endl;
37     return 0;
38 }
39
```

8:4 — Konsole

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1.25

52.1

-5

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4 float pow(float x,int y){
5     float z=1;
6     if (y==1){
7         z=x;
8     } else if (x>1){
9         z=x*pow(x,y-1);
10    }
11    return z;
12 }
13 int main(){
14     float x;
15     int y;
16     cout<<"input x and y : ";
17     cin>>x>>y;
18     cout<<pow(x,y);
19     return 0;
20 }
```

8:5 — Konsole

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input x and y : 2 3

8

-6

```
1 #include <iostream>
2 using namespace std;
3 float fib(int x){
4     if (x==1||x==0){
5         return x;
6     } else {return (fib(x-1)+fib(x-2));}
7 }
8 int main(){
9     int x;
10    cout<<"fib number : ";
11    cin>>x;
12    cout<<fib(x);
13    return 0;
14 }
```

8 : 6 — Konsole

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fib number : 7
13

-V

```
1 #include <iostream>
2 #include <math.h>
3 using namespace std;
4 int main()
5 {
6     float x,y,a,b,c;
7     cout<<"input x,y,a,b,c : ";
8     cin>>x>>y>>a>>b>>c;
9     cout<<endl<<sqrt(pow(x,2) + fabs(b));
10    cout<<endl<<fabs(sqrt(pow(x,2)+pow(y,2)));
11    cout<<endl<<exp(-sqrt(x));
12    cout<<endl<<sqrt(fabs(a*pow(x,2) + b*x + c));
13    cout<<endl<<exp(-x/3);
14    return 0;
15 }
```

8 : 7 — Konsole

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input x,y,a,b,c : 1
2
3
4
5
2.23607
2.23607
0.367879
3.4641
0.716531

-A

```
1 #include <iostream>
2 #include <math.h>
3 using namespace std;
4 int main()
5 {
6     for (int i=1;i<=10;i++){
7         cout<<log10(i)<<endl;
8     }
9     return 0;
10 }
11
12
```

8 : 8 — Konsole

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0
0.30103
0.477121
0.60206
0.69897
0.778151
0.845098
0.90309
0.954243
1

```
1  #include <iostream>
2  using namespace std;
3  bool prime(int x){
4      for (int i=2;i<x;i++){
5          if (i==(x-1)){
6              return true;
7              break;
8          }
9          if ((x%i)==0){
10             return false;
11             break;
12         }
13     }
14 }
15 int main()
16 {
17     int x;
18     cout<<"input the number : ";
19     cin>>x;
20     cout<<prime(x);
21     return 0;
22 }
```

