习题3

一、

1.C 2.D 3.D 4.C 5.B 6.C 7.A 8.C 9.B

二、

(1)输入两个正整数给m和n。

(2)20

(3)s=288

(4)AB20ega5

(5)

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三、

(1)c==')'

count==0

count>0

-count

(2)cin>>m>>n

m=m-n

n=n-m

(3)n=m

n=n/5

m=m+5

四、

1.

#include <iostream>

using namespace std;

int main()

{float x,y;

cout<<"input x:"<<endl;

cin>>x;

if(x<5)

y=fabs(x);

else if(x<20)

y=3\*x\*x-2\*x+1;

else

y=x/5;

cout<<"x="<<x<<",y="<<y<<endl;

system("pause");

return 0;

}

2.

#include <iostream>

using namespace std;

int main()

{

int number;

double payment,discount;

cout << "请输入购买数量：";

cin >> number;

switch(number/20)

{

case 0:discount=1;break;

case 1:discount=0.9;break;

case 2:discount=0.85;break;

case 3:

case 4:discount=0.8;break;

default:discount=0.75;

}

payment = 30\*number\*discount;

cout << "购买数量：" << number << "盒，支付费用" << payment<<"元"<<endl;

system("pause");

return 0;

}

3.

#include <iostream>

using namespace std;

int main()

{int m,count=0;

for(m=100;m<1000;m++)

{if(m%10+m/10%10+m/100==5)

count++;

}

cout<<"count="<<count<<endl;

system("pause");

return 0;

}

4.

#include <iostream>

using namespace std;

int main()

{int m,n;

for(m=0;m<=30;m++)

for(n=0;n<=30;n++)

if(m\*2+n\*4==90&&m+n==30)

cout<<"鸡:"<<m<<"兔:"<<n<<endl;

system("pause");

return 0;

}

5.

#include <iostream>

using namespace std;

int main()

{

float pi=0,t=1;

int n=1,s=1;

while(fabs(t)>1e-6)

{

pi=pi+t;

s=-s;

n+=2;

t=s/(double)n;

}

pi=4\*pi;

cout<<"pi="<<pi<<endl;

system("pause");

return 0;

}

6.

#include <iostream>

using namespace std;

int main()

{int x,y;

for(x=1;x<=100;x++)

for(y=1;y<=100;y++)

if(x\*x+2\*x==y\*y\*y)

cout<<"x="<<x<<",y="<<y<<endl;

system("pause");

return 0;

}

7.

#include <iostream>

using namespace std;

int main()

{char ch;

while((ch=getchar())!='.')

if(ch==' ')

cout<<endl;

else

cout<<ch;

system("pause");

return 0;

}

8.

#include <iostream>

#include "math.h"

using namespace std;

int main()

{int m,k1,k2;

for(m=0;m<=1000;m++)

{k1=sqrt(m+100);

k2=sqrt(m+100+168);

if(k1\*k1==m+100&&k2\*k2==m+100+168)

cout<<m<<"是满足条件的数"<<endl;

}

system("pause");

return 0;}