1. (20 pts) What is displayed ?

```
string sa="AA", sb="AB";
int ia=0, ib=8;
char ca='A', cb='a',cc='b';
bool ba=(ca<cb);        //ba=
bool bb=!(sa>sb);       //bb=
cc = cc-1;              //cc=
bool bc=(cb!=cc);       //bc=
ia+=ib%2+2*4;           //ia=
ib/=ia;                 //ib=
cout << 'a' << ib << 1*1
    << "\nQUIZ2\t"<<sa<<endl<<bc;
```

2. (20 pts) What is displayed for each of the examples below ?

```
a. int x=0,y=9,i=8;
   if(x<i && i<y){
       i=i+2;
       x=2;
   } else{
     i=i-1;
     y=3;
   }
   cout << x << y << i;
```

```
b. int x=2;
 if(x!=2){
   x=x*x;
 }
 else if(x<1 || x>4){
   x+=3;
 } else{
   x-=6;
 }
```

3. (20 pts) What is displayed for each of the examples below ?

```
a. char c='b';
  switch(b){
    case 'a': c='O';   break;
    case 'b': c='N'; break;
    default : c='E';
  }
cout << c;
```

b. int x=2;
   char c='a';
   switch(x){
       case 1:c=c+1;
           break;
       case 2:c=c+2;
       default:c=c+1 ;
   }
   cout << c;

4. (20 pts) What is displayed for each of the examples below ?
a. int x=0;
   while(x<2){
     cout << x;
   }
b. int x=2;
   while(x>3){
      cout << x;
      x++;
   }
c. int x=1;
   while(x<4){
       cout << 2*x;
       x++;
   }

5. (20 pts) Write the complete C ++ program corresponding to the simulation below.
   Make sure your code covers all the special cases.
   a=0 and b !=0   => no solution
   a=0 and b==0   => All the real numbers
   a!0   => -b/a

****
  Solving ax+b=0
****

Enter a and b: 2 10
The solution to 2x + 10 = 0 is -5.