```
public class Divisors {
public static void main (String[] args) {
int x = Integer.parseInt(args[0]);
System.out.println("1");
int d = 2;
for (int i = 0; i<x; i++ )
{
    if (x%d==0)
        System.out.println(d);
    d++;
}
</pre>
```

```
public class Reverse {
public static void main (String[] args){
   String a = args[0];
   int n = a.length()-1;
   for (int i = 0; i < a.length(); i++)
   {
        System.out.print(a.charAt(n));
        n--;
   }
   System.out.println ();
   int middle = a.length();
   if(middle%2==0)
        System.out.println( "The middle character is "+ a.charAt(middle/2-1));
   else
        System.out.println( "The middle character is "+ a.charAt(middle/2));
}
}</pre>
```

```
public class InOrder {
public static void main (String[] args) {
int max=0;
```

```
int random = (int) (Math.random() * 9 +1);
while (random > max )
{
      if (max < random)
      {
            System.out.print(random+" ");
            max=random;
      }
    random = (int) (Math.random() *9 +1);
}
}</pre>
```

```
public class Perfect {
public static void main (String[] args) {
```

```
int n = Integer.parseInt(args[0]);
boolean div=false;
int sum=1;
int length=0;
int n2=0;
String s1 = n + " is a perfect number since " + n + " = 1";
for (int i=2; i<n; i++)
{
       div = (n\%i = = 0);
       if (div)
        s1 = s1 + " + " + String.valueOf(i);
        sum = sum+i;
} if (sum==n)
              System.out.print(s1);
else
              System.out.print(n + " is not a perfect number");
}
}
```

```
import java.util.Random;
public class OneOfEachStats {
public static void main (String[] args) {
int t= Integer.parseInt(args[0]);
int seed = Integer.parseInt(args[1]);
Random generator = new Random(seed);
int n4=0, n2=0,n3=0, sum=0,kids=0;
boolean ifboy=false;
boolean ifgirl=false;
double rnd;
```

```
for( int i=0; i<t; i++)
      while ((ifboy==false)||(ifgirl==false))
       rnd = generator.nextDouble();
       if (rnd<0.5)
       {
              ifboy=true;
       else
              ifgirl=true;
       }
       sum++;
       kids++;
}
if (kids==2)
{
       n2++;
else
       if (kids==3)
              n3++;
       else
              n4++;
ifboy=false;
ifgirl=false;
kids=0;
System.out.println("Average: "+((double)sum/t)+" children to get at least one of each
gender.");
System.out.println("Number of families with 2 children: "+n2);
System.out.println("Number of families with 3 children: "+n3);
System.out.println("Number of families with 4 or more children: "+n4);
if(n2>n3)
```