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Java

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

```
String Reverse = "";
    String a= args[0];
    char middle =' ';
    if (a.length()%2==0) {
        middle=a.charAt((a.length()/2)-1);
        for (int i = a.length()-1; i >= 0; i--)
        {
            Reverse=Reverse+a.charAt(i);

        }
    }else{
        middle=a.charAt(((a.length())-1)/2);
        for (int i = a.length()-1; i >= 0; i--)
        {
            Reverse=Reverse+a.charAt(i);
        }
    }
    System.out.println(Reverse);
    System.out.println("The middle character is "+ middle);
```

```
int n = Integer.parseInt(args[0]);
    String out= n + " is a perfect number since " + n + " = 1";
    int sum=1;
    for (int i = 2; i < n; i++) {

        if (n%i==0){
            sum+=i;
            out+=" + " +i;
        }
     }
     if (sum==n) {
            System.out.println(out);
     }
     else{
            System.out.println(n + " is not a perfect number");
     }
}</pre>
```

```
nt n = Integer.parseInt(args[0]);
    for(int i=1;i<=n;i++){
        if(i%2==0){
        System.out.print(" ");
        }
        for(int j=1;j<=n;j++){
        if(j<n){
        System.out.print("* ");
        }
        else System.out.print("*");
     }
     if(i%2==1){
        System.out.print(" ");
     }
     System.out.print(" ");
}</pre>
```

```
int T=Integer.parseInt(args[0]);
        int c2=0;
        int c3=0;
        int c4=0;
        double count=0;
        int sum=0;
        for (int i = 0; i < T; i++) {
            boolean girl= false;
            boolean boy= false;
            sum=0;
            while ((!boy)||(!girl)) {
               double n= (Math.random());
               sum++;
               if (n<=0.5) {
                boy=true;
                }else{
                girl=true;
            if (sum==2) {
                c2++;
            if (sum==3) {
                c3++;
            if (sum>=4) {
                c4++;
            count+=sum;
        double avg = count/T;
        System.out.println("Average: " + avg + " children to get at
least one of each gender.");
        System.out.println("Number of families with 2 children: " +
c2);
        System.out.println("Number of families with 3 children: " +
c3);
        System.out.println("Number of families with or more children: "
+ c4);
        int max= Math.max(Math.max(c4, c3), c2);
        if (max = c2 | max = 0){
            System.out.println("The most common number of children is
2.");
        }else if (max==c3) {
```

```
int T = Integer.parseInt(args[0]);
        int seed = Integer.parseInt(args[1]);
        Random generator = new Random(seed);
        int c2=0;
        int c3=0;
        int c4=0;
        int count=0;
        int sum=0;
        for (int i = 0; i < T; i++) {
            boolean girl= false;
            boolean boy= false;
            sum=0;
            while ((!boy)||(!girl)) {
               double n= (int) (generator.nextDouble());
               if (n<=0.5) {
                boy=true;
                }else{
                girl=true;
                sum++;
            if (sum==2) \{
                c2++;
                count+=sum;
            if (sum==3) \{
                c3++;
                count+=sum;
            if (sum>=4) {
                c4++;
                count+=sum;
        double avg = (double)(count)/T;
        System.out.println("Average: " + avg + " children to get at
least one of each gender.");
        System.out.println("Number of families with 2 children: " +
c2);
        System.out.println("Number of families with 3 children: " +
c3);
        System.out.println("Number of families with or more children: "
+ c4);
        int max= Math.max(Math.max(c4, c3), c2);
```