1.valueOf(parament); 将字符串，整数等转换为制定的类型

比如 **int** a=3; BigInteger b=BigInteger.valueOf(a);

则b=3;

String s=”12345”; BigInteger c=BigInteger.valueOf(s);

则c=12345；

2.subtract(); *//*减法multiply(); *//*乘法divide(); *//*相除取整

a.divide(b,50,BigDecimal.ROUND\_HALF\_UP)*// a/b*保留*50*位小数

3.pow(); *//a.pow(b) = a ^ b*

4.gcd(); 最大公约数

5.abs(); 绝对值

6.negate(); 取反数

7.mod(); 取模

8.compareTo(); 比较函数

9.equals(); 判断相等

10. s.substring(s,t); 截取[s,t)内容;

11.String s=ans.toString(); 数字转字符串

12.BigDecimal **ans**=**new** BigDecimal(str); 字符串转大小数

**import** java.math.\*;

**import** java.util.\*;

**public class** Main {

**public static void** main(String[] args) {

Scanner cin=**new** Scanner(System.***in***);

**int** t;

t=cin.nextInt();

**int** count;

BigInteger a,b;

BigInteger f[]=**new** BigInteger[1005];

f[1]=BigInteger.*valueOf*(1);

f[2]=BigInteger.*valueOf*(2);

**for**(**int** i=3;i<=1000;i++)

f[i]=f[i-1].add(f[i-2]);

**while**(cin.hasNextBigInteger()){

a=cin.nextBigInteger();

b=cin.nextBigInteger();

**if**(a.equals(BigInteger.*valueOf*(0))&&b.equals(BigInteger.*valueOf*(0)))**return**;

count=0;

**for**(**int** j=1;j<=1000;j++){

**if**(f[j].compareTo(a)>=0&&f[j].compareTo(b)<=0)

count++;

}

System.***out***.println(count);

}

}

BigDecimal **c**;

String **s** = **c**.stripTrailingZeros().toPlainString(); *//*去零

**if**(**s**.charAt(0)==**'0'**) *//*输出有效数字

System.***out***.println(**s**.substring(1));

**else**

System.***out***.println(**s**);

}

三角形外心：

**import** java.math.\*;

**import** java.util.\*;

**public class** Main {

**public static void** main(String[] args) {

Scanner cin = **new** Scanner(System.***in***);

**int** t;

t = cin.nextInt();

BigDecimal x1, x2, x3, y1, y2, y3, x0, y0, x, y;

BigDecimal u2, u1, d11, d12, d21, d22, d, r, aa, bb, cc, dd;

BigDecimal s = BigDecimal.*valueOf*(2.0);

**for** (**int** i = 1; i <= t; i++) {

x1 = cin.nextBigDecimal();

y1 = cin.nextBigDecimal();

x2 = cin.nextBigDecimal();

y2 = cin.nextBigDecimal();

x3 = cin.nextBigDecimal();

y3 = cin.nextBigDecimal();

x = cin.nextBigDecimal();

y = cin.nextBigDecimal();

u1 = (x2.multiply(x2).subtract(x1.multiply(x1)).add(y2.multiply(y2)).subtract(y1.multiply(y1))).divide(s, 50, BigDecimal.***ROUND\_HALF\_UP***);

u2 = (x3.multiply(x3).subtract(x1.multiply(x1)).add(y3.multiply(y3)).subtract(y1.multiply(y1))).divide(s, 50, BigDecimal.***ROUND\_HALF\_UP***);

d11 = x2.subtract(x1);

d12 = y2.subtract(y1);

d21 = x3.subtract(x1);

d22 = y3.subtract(y1);

aa = u1.multiply(d22).subtract(u2.multiply(d12));

bb = d11.multiply(d22).subtract(d21.multiply(d12));

cc = u2.multiply(d11).subtract(u1.multiply(d21));

dd = d11.multiply(d22).subtract(d21.multiply(d12));

x0 = aa.divide(bb, 50, BigDecimal.***ROUND\_HALF\_UP***);

y0 = cc.divide(dd, 50, BigDecimal.***ROUND\_HALF\_UP***);

d = (x0.subtract(x)).multiply(x0.subtract(x)).add((y0.subtract(y)).multiply(y0.subtract(y)));

r = (x0.subtract(x1)).multiply(x0.subtract(x1)).add((y0.subtract(y1)).multiply(y0.subtract(y1)));

**if** (d.compareTo(r) <= 0) {

System.***out***.println(**"Rejected"**);

} **else** System.***out***.println(**"Accepted"**);

}

}

}

Java快读：

**import** java.io.\*;

**import** java.math.\*;

**import** java.util.\*;

**public class** Main {

**class** Scanner{

BufferedReader **br**;

StringTokenizer **st**;

Scanner(InputStream in){

**br** = **new** BufferedReader(**new** InputStreamReader(in));

eat(**""**);

}

**void** eat(String s){

**st**=**new** StringTokenizer(s);

}

String nextline(){

**try**{

**return br**.readLine();

}**catch** (IOException e){

**throw new** IOError(e);

}

}

**boolean** hasNext(){

**while**(!**st**.hasMoreTokens()){

String s=nextline();

**if**(s==**null**) **return false**;

eat(s);

}

**return true**;

}

String next(){

hasNext();

**return st**.nextToken();

}

**int** nextInt(){

**return** Integer.*parseInt*(next());

}

**long** nextLong(){

**return** Long.*parseLong*(next());

}

**double** nextDouble(){

**return** Double.*parseDouble*(next());

}

}

**void** run()//操作代码写在这里

{

Scanner cin=**new** Scanner(System.***in***);

**int** t;

t=cin.nextInt();

……

}

**public static void** main(String[] args) {

**new** Main().run();

}

}

数组排序：

**import** java.math.\*;

**import** java.util.\*;

**class** P **implements** Comparable<P>

{

**int** x,y;

**public** **int** compareTo(P a)

{

**if**(**this**.x\***this**.y-a.x\*a.y != 0) **return** **this**.x\***this**.y-a.x\*a.y;

**return** **this**.x-a.x;

}

}

**public** **class** Main

{

**public** **static** **void** main(String[] args) {

Scanner cin=**new** Scanner(System.***in***);

P a[] = **new** P[1005];

BigInteger ma=BigInteger.*valueOf*(0);

BigInteger ans=BigInteger.*valueOf*(1);

**int** n,xx,x,y;

n=cin.nextInt();

ans=cin.nextBigInteger();

xx=cin.nextInt();

**for**(**int** i=0;i<n;i++) {

a[i]=**new** P();

a[i].x=cin.nextInt();

a[i].y=cin.nextInt();

}

Arrays.*sort*(a,0,n);

**for**(**int** i=0;i<n;i++) {

ma=ma.max(ans.divide(BigInteger.*valueOf*(a[i].y)));

ans=ans.multiply(BigInteger.*valueOf*(a[i].x));

}

System.***out***.println(ma);

}

}