```
Control and Looping
                                                                                                         Question Information
                                                                                                                                                                       • Level 1 • Challenge 21
Question description
India is the largest democracy in the world.
The citizens of India have the right to choose their leaders through the process of elections.
There are certain requirements for a candidate to be eligible in order to contest in the decision-making process of elections and one of the requirements is age
John is working in the Election Commission of India, Can you help him to write a program to check whether a candidate is eligible to contest?
Condition for Eligibility as per the Constitution on India is
(i) Eligible if age \geq 25
(ii) Not Eligible if age <25
1≤age≤100
Input Format:
The only line of input has single value of type integer representing age.
Output Format:
Print as Eligible or Not Eligible based on the eligibility criteria in a single line.
```

```
Control and Looping
                                                                              Question Information
                                                                                                                   • Level 1 • Challenge 22
  Course
               Question description
               Jones has got a task from his boss and he needs to finish it by evening
               He gave him a set of phone numbers and he has to reverse the digits of those phone numbers and generate new phone numbers which are going to be used by the company
               Help Jones to complete the task quick since he wants to watch the football match this evening
  Problem
               First line, contains n number of test cases
               Followed by no. of phone numbers
               Output Format:
               Reversed digits of n phone numbers in separate lines
import java.io.*;
import java.util.Scanner;
public class Class232241010020 {
            public static void main(String[] args) {
                Scanner input = new Scanner(System.in);
                int n,remainder,reverse;
                n=input.nextInt();
                while(n!=0)
                {
                   int num=input.nextInt();
                   remainder=0;reverse=0;
                   while(num>0)
                   remainder=num%10;
                   reverse=reverse*10;
                   reverse+=remainder;
                   num/=10;
                   }
                   System.out.println(reverse);
                   n--;
                }
```

```
}
  Course
                                                  Control and Looping
                                                                                                                               • Level 1 • Challenge 23
                Question description
                 Selvan is solving his mathematics homework
                 He came across a question where he needed to calculate the sum of first n natural numbers and check whether the sum is odd or even
                Can you help him solve this problem since he is running out of time and he needs to submit his homework tomorrow.
                 Sum of n natural numbers= (n x (n+1))/2
                Constraints
  Problem
                 1<n<1000
                 Only one line of input has one integer n
                First line, print sum of first n natural number
                 Second line, print whether "Even" or "Odd"
import java.io.*;
import java.util.Scanner;
public class Class232241010020 {
             public static void main(String[] args) {
                         Scanner x = new Scanner(System.in);
                         int n,sum;
                         n = x.nextInt();
                         sum=(n*(n+1))/2;
                         System.out.println(sum);
                         if(n%2==0)
                         System.out.println("Even");
                         else
                         System.out.println("Odd");
            }
}
```

```
Ouestion description

Thomas is playing a game with his friend Taylor. They have a pile containg N coins. Players take alternate turns, removing some coins from the pile. On each turn, a player can remove either one coin or coins equal to some prime power (i.e. p* coins, where p - prime number and x - positive integer). Game ends when the pile becomes empty. The player who can not make a move in his turn loses.

Thomas plays first. Your task is to find out who will win the game, provided that both of the player play optimally.

Constraints:

1 ≤ T ≤ 1000

1 ≤ N ≤ 10°

Input Format:

The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows.

The only line of each test case contains one integer N

Output Format:

For each test case, output a single line containing one word - the name of the winner of the game. Print *Thomas* (without quotes) if Thomas wins the game, print *Taylor* (without quotes) otherwise.
```

```
import java.io.*;
import java.util.*;
public class Class232241010020 {
        public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
           int t = sc.nextInt();
           while(t > 0){
             int n = sc.nextInt();
             if(n\%6!=0){
               System.out.println("Thomas");
             }
             else{
               System.out.println("Taylor");
             }
             t--;
           }
        }
```

```
Control and Looping
                                                                                 Question Information
                                                                                                                       • Level 1 • Challenge 25
                Jordan works at the admissions office in a university and he is designing an online form for the next year intake process
                An applicant has to enter their gender as a part of the details in the form.
                Can you help him write a program that will help the form system identify whether the applicant is "Male" or "Female" when they select 'M' or 'F'
  Problem
                1≤|$|≤10^5
                Input Format:
                Single line input has character input of either m,M,f,F
                Output Format:
                Print the corresponding gender as "Male" or "Female"
            import java.io.*;
import java.util.Scanner;
public class Class232241010020 {
            public static void main(String[] args) {
                        char ch;
                        Scanner sc = new Scanner(System.in);
                        ch = sc.next().charAt(0);
                        switch(ch){
                           case 'm':
                             System.out.println("Male");
                             break;
                           case 'M':
                             System.out.println("Male");
                             break;
                           case 'f':
                             System.out.println("Female");
                             break;
                           case 'F':
                             System.out.println("Female");
                             break;
                           default:
                             System.out.println("None");
                        }
```

```
Course

JAVA

Session

Control and Looping

Question Information

Question Information

Question Information

Level 1 
Challenge 26

Question description

Max has X coins worth 1 rupee each and Y coins worth 2 rupees each. He wants to distribute all of these X+Y coins to his two sons so that the total value of coins received by each of them is the same. Find out whether Max will be able to do so.

Constraints:

1≤T≤10^3

0±X,Y≤10^8

X+Y>0

Input Format:

The first line of input contains a single integer T, denoting the number of testcases.

The description of T test cases follows. Each test case consists of a single line of input containing two space-separated integers X and Y.

Output Format:

For each test case, print "YES" (without quotes) if Chef can distribute all the coins equally and "NO" otherwise.
```

```
import java.io.*;
import java.util.Scanner;
public class Class232241010020 {
        public static void main(String[] args) {
                Scanner input = new Scanner(System.in);
                int n = input.nextInt();
                while(n!=0)
                {
                  int x=input.nextInt();
                  int y=input.nextInt();
                  int amt = x + (y*2);
                  if(amt % 2 == 0)
                     System.out.println("YES");
                  else
                     System.out.println("NO");
                 n--;
          }
        }
}
```



```
public static void main(String[] args) {
                       Scanner in = new Scanner(System.in);
                       int a,b,c;
                       int t=in.nextInt();
                       for(int i=0;i<t;i++){
                          a=in.nextInt();
                          b=in.nextInt();
                          c=in.nextInt();
                          if(a+b+c<3 && a+b+c>=1)
                             System.out.println(1);
                          else
                             System.out.println(0);
                       }
           }
}
                                                                                 Question Information
                                                                                                                       • Level 1 • Challenge 29
 Course
                                               Control and Looping
               Steve and his friend went outside to watch a movie.
               On their way back home they thought to play a game for fun
               They need to count the number of digits of any number they come across let it be a vehicle license, street no. ,addresses any random number as quickly as possible
  Problem
               1≤m≤10000
               First line integer input, n number of testcases
               Followed by the n lines of integer numbers
               Number of digits of corresponding number in separate line
import java.io.*;
import java.util.Scanner;
public class Class232241010020 {
            public static void main(String[] args) {
                       Scanner input = new Scanner(System.in);
                       long k,c;
                       int n = input.nextInt();
```

```
while(n!=0)
                                     {
                                           c=0;
                                           k=input.nextInt();
                                           while(k>0)
                                           {
                                                k=k/10;
                                               C++;
                                          }
                                           System.out.println(c);
                                           n--;
                                     }
                  }
}
                                                                                                                                                                                      • Level 1 • Challenge 30
  Course
                                                                         Control and Looping
                                                                                                                         Question Information
                    Ralph is the organizer and promoter for the magnum opus Beatdown.
                    There are n people who want to take part in Beatdown. In the competition, a team should consist of exactly two people (as opposed to the real contest, where single-member teams are allowed). Of course, a person can only participate in a single team. Out of these, 2 * m people have already formed their teams, i.e. there are m teams already formed. The remaining people want to participate and make teams amongst themselves. Can you please tell whether it is possible to divide them into teams so that all the n people can participate?
                    1 ≤ T ≤ 100
                    2 ≤ n ≤ 100
                    1 \le m \le n / 2
   Problem
                    The m already formed teams will be valid.
                    The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows.
                    The first line of each test case contains two space separated integers n, m.
                    The i-th of the next m lines contains two space separated integers u_i, v_i denoting that the pair of people u_i, and v_i have decided to form a team.
                    For each test case, output "yes" or "no" (without quotes) corresponding to the answer of the problem.
import java.io.*;
import java.util.*;
public class Class232241010020 {
                    public static void main(String[] args) {
                                     Scanner x = new Scanner(System.in);
                                     int t = x.nextInt();
                                     while(t-- > 0) {
```

```
int n = x.nextInt();
                        int m = x.nextInt();
                        while(m-->0) {
                           x.nextInt();
                            x.nextInt();
                        }
                        if(n % 2 == 0) System.out.println("yes");
                        else System.out.println("no");
                        }
                        x.close();
            }
}
                                                                                   Question Information
                                                                                                                           • Level 1 • Challenge 21
  Course
               Question description
               Steve and his friend went outside to watch a movie.
               On their way back home they thought to play a game for fun
                They need to count the number of digits of any number they come across let it be a vehicle license, street no. ,addresses any random number as quickly as possible
                1 \le k \le 100
  Problem
               First line integer input, n number of testcases
               Followed by the n lines of integer numbers
               Output Format:
               Number of digits of corresponding number in separate line
import java.io.*;
import java.util.Scanner;
public class Class232241010096 {
             public static void main(String[] args) {
                        Scanner input = new Scanner(System.in);
                        long k,c;
                        int n = input.nextInt();
                        while(n!=0)
```

{

c=0;

Question description:
Ralph is the organizer and promoter for the magnum opus Beatdown.  There are n people who want to take part in Beatdown. In the competition, a team should consist of exactly two people (as opposed to the real contest, where single-member teams are allowed). Of course, a person participate in a single team. Out of these, 2 "m people have already formed their teams, i.e. there are m teams already formed. The remaining people want to participate and make teams amongst themselves. Can tell whether it is possible to divide them into teams so that all the n people can participate?  Constraints:  1 ≤ T ≤ 100  2 ≤ n ≤ 100  1 ≤ m ≤ n / 2  1 ≤ u <sub>i</sub> , v <sub>i</sub> ≤ n  The m already formed teams will be valid. Input Format:  The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows.  The first line of each test case contains two space separated integers u <sub>i</sub> , v <sub>i</sub> denoting that the pair of people u <sub>i</sub> , and v <sub>i</sub> have decided to form a team.  Output Format:  For each test case, output "yes" or "no" (without quotes) corresponding to the answer of the problem.

```
import java.io.*;
import java.util.*;
public class Class232241010096 {
    public static void main(String[] args) {
        Scanner x = new Scanner(System.in);
        int t = x.nextInt();
        while(t-- >0){
        int n = x.nextInt();
        int m = x.nextInt();
        while(m-- >0){
```

```
x.nextInt();
x.nextInt();
}
if(n%2==0)
System.out.println("yes");
else
System.out.println("no");
}
}
```

Course	JAVA Session	Control and Looping	Question Information	• Level 1 • Challenge 23
Problem	Each testcase contains a single line of Output Format:	omputed as M/(H^2) s, based on his BMI: ≤18 MI is {19, 20,, 24} is {25, 26,, 29}	hich denote the mass and height of Tony respectively.	

```
import java.io.*;
import java.util.Scanner;
public class Class232241010096 {
        public static void main(String[] args) {
            Scanner input = new Scanner(System.in);
            float bmi,m,h;
            int n=input.nextInt();
            while(n!=0)
            {
                  m=input.nextFloat();
            }
}
```

```
h=input.nextFloat();
                           bmi=m/(h*h);
                           if(bmi<=18)
                              System.out.println(1);
                           else if(bmi>=18.1 && bmi<=24)
                              System.out.println(2);
                          else if(bmi>=24.1 && bmi<=29)
                              System.out.println(3);
                          else
                         System.out.println(4);
                         n--;
                        }
            }
}
                                                                          Question Information
              Question description
              Max has X coins worth 1 rupee each and Y coins worth 2 rupees each. He wants to distribute all of these X+Y coins to his two sons so that the total value of coins received by each of them is the same. Find out whether Max
              1≤T≤10^3
              0≤X,Y≤10^8
               The description of T test cases follows. Each test case consists of a single line of input containing two space-separated integers X and Y.
              For each test case, print "YES" (without quotes) if Chef can distribute all the coins equally and "NO" otherwise.
import java.io.*;
import java.util.Scanner;
public class Class232241010096 {
            public static void main(String[] args) {
                        Scanner input = new Scanner(System.in);
                        int n = input.nextInt();
                        while(n!=0)
                           int x=input.nextInt();
                           int y=input.nextInt();
```

```
int amt = x + (y*2);
                               if(amt % 2 == 0)
                                   System.out.println("YES");
                               else
                                   System.out.println("NO");
                             n--;
                 }
             }
}
                                                    Control and Looping
                                                                                        Question Information
                                                                                                                                    • Level 1 • Challenge 25
 Course
               Charles has three socks in his drawer. Each sock has one of 10 possible colors, which are represented by integers between 1 and 10. Specifically, the colors of the socks are A,B and C
               Charles has to wear two socks which have the same color. Help Charles find out if that is possible or not. Charles has three socks in his drawer. Each sock has one of 10 possible colors, which are represented by integers
               between 1 and 10. Specifically, the colors of the socks are A,B and C
               Charles has to wear two socks which have the same color. Help Charles find out if that is possible or not.
               Since there are no two socks with the same color, Charles cannot wear a pair of socks with the same color.
  Problem
               The first and only line of the input contains three space-separated integers A,B and C \,
               Print a single line containing the string "YES" if it is possible for Charles to wear two socks with the same color or "NO" if it is impossible.
import java.io.*;
import java.util.Scanner;
public class Class232241010096 {
              public static void main(String[] args) {
                           Scanner input = new Scanner(System.in);
                           int A=input.nextInt();
                           int B=input.nextInt();
                           int C=input.nextInt();
                           System.out.println("YES");
                           else
                               System.out.println("NO");
             }
}
```

```
Course

Question description
There are three friends, let's call them Ben, Ray and Roger. They made the following statements:

- 8en: "I have x dollars more than Ray."
- Roger: "I have x dollars more than Ray."
- Roger: "I have x dollars more than Roger."
- Roger: "I have x dollars more than Roger."
- Roger: "I have x dollars more than Ben."

You do not know the exact values of x, y, z. Instead, you are given their absolute values, i.e. X = |x|, Y = |y| and Z = |z|. Note that x, y, z may be negative; "having -d dollars more" is the same as "having d dollars less".

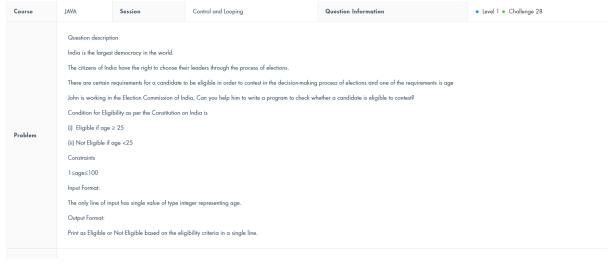
Find out if there is some way to assign amounts of money to Ben, Ray, Roger such that all of their statements are true.

Constraints
1sts 1000
1sty, Yz=1000
Input Format:
The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.

The first and only line of each test case, print a single line containing the string "yes" if the presented scenario is possible or "no" otherwise (without quotes)
```

```
import java.io.*;
import java.util.Scanner;
public class Class232241010096 {
         public static void main(String[] args) {
                Scanner in = new Scanner(System.in);
                int t = in.nextInt();
                while(t-->0){}
                   int x=in.nextInt();
                   int y=in.nextInt();
                   int z=in.nextInt();
                   if((x-y+z)==0 | | (x+y-z)==0 | | (-x+y+z)==0)
                     System.out.println("yes");
                   else
                     System.out.println("no");
                }
        }
}
```

```
import java.io.*;
import java.util.Scanner;
public class Class232241010096{
        public static void main(String[] args) {
          Scanner input = new Scanner(System.in);
          int A,B,C,D;
          int n=input.nextInt();
          while(n!=0)
          {
            A=input.nextInt();
            B=input.nextInt();
            C=input.nextInt();
            D=input.nextInt();
            if((A+C)==(B+D))
               System.out.println("YES");
            else
               System.out.println("NO");
            n--;
          }
        }
```



```
import java.io.*;
import java.util.Scanner;
public class Class232241010096 {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        int age = in.nextInt();
        if(age>=25)
            System.out.println("Eligible");
        else
            System.out.println("Not Eligible");
        }
}
```

Course	JAVA	Session	Control and Looping	Question Information	• Level 1 • Challenge 29
Problem	Mathew is really y Help john to write Constraints 1≤N≤10^5  S =N Input Format: Single line input h Output Format:	other and his name is Mathew roung and is just starting to lea	arn english, John wants to explain him about consonar as input and displays whether the entered character is		

import java.io.\*;

}

import java.util.Scanner;

```
public class Class232241010096 {
           public static void main(String[] args) {
                    Scanner input = new Scanner(System.in);
                    char ch = input.next().charAt(0);
                    if(ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U' || ch=='a' || ch=='e' || ch=='i'
|| ch=='o' || ch=='u')
                System.out.println("Vowel");
            else
                System.out.println("Consonant");
           }
}
  Course
                                          Control and Looping
                                                                        Question Information
                                                                                                         • Level 1 • Challenge 30
              Question description
              Jones has got a task from his boss and he needs to finish it by evening
              He gave him a set of phone numbers and he has to reverse the digits of those phone numbers and generate new phone numbers which are going to be used by the company
              1≤n≤100
  Problem
              1≤k≤10
              Reversed digits of n phone numbers in separate lines
import java.io.*;
import java.util.Scanner;
public class Class232241010096 {
           public static void main(String[] args) {
                    Scanner input = new Scanner(System.in);
                    int n,remainder,reverse;
                    n=input.nextInt();
                    while(n!=0)
                    {
                       int num=input.nextInt();
                       remainder=0;reverse=0;
                       while(num>0)
                       {
```

```
remainder=num%10;
reverse=reverse*10;
reverse+=remainder;
num/=10;
}
System.out.println(reverse);
n---;
}
}
```

```
Guestion description

Bill was solving some problems in his math textbook and after he was done his friend Ray gave him a challenge

He gave him the sizes of angles of a simple quadrilateral [in degrees] A,B,C and D in some order along its perimeter. Bill has to determine whether the quadrilateral is cyclic.

Note: A quadrilateral is cyclic if and only if the sum of opposite angles is 180 degrees

Constraints:

1≤Ts10^4

1≤A,B,C,D≤357

A+B+C+D=360
Input Format:

The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.

The first and only line of each test case contains four space-separated integers A, B, C and D.

Output Format:

Print a single line containing the string "YES" if the given quadrilateral is cyclic or "NO" if it is not (without quotes).
```

```
import java.io.*;
import java.util.Scanner;
public class Class232241010042 {
        public static void main(String[] args) {
        int A,B,C,D;
        Scanner sc = new Scanner(System.in);
        int t = sc.nextInt();
        while(t > 0){
            A = sc.nextInt();
            B = sc.nextInt();
            C = sc.nextInt();
            D = sc.nextInt();
            int x = A + C;
```

```
int y = B + D;
                if(x == 180 && y == 180)
                {
          System.out.println("YES");
                }
      else
      {
          System.out.println("NO");
      }
      t--;
              }
     }
}
                                                                                                                            • Level 1 • Challenge 22
                                                 Control and Looping
                                                                                    Question Information
                Steve and his friend went outside to watch a movie
                On their way back home they thought to play a game for fun
                They need to count the number of digits of any number they come across let it be a vehicle license, street no., addresses any random number as quickly as possible
                1<k<100
  Problem
                1≤m≤10000
                First line integer input, n number of testcases
                Followed by the n lines of integer numbers
                Number of digits of corresponding number in separate line
import java.io.*;
import java.util.Scanner;
public class Class232241010042 {
             public static void main(String[] args) {
                Scanner input = new Scanner(System.in);
                long k,c;
                int n = input.nextInt();
                while(n!=0)
                {
                    c=0;
```

```
k=input.nextInt();
                     while(k>0)
                     {
                         k=k/10;
                         C++;
                     }
                     System.out.println(c);
                      n--;
                 }
             }
}
                                                                                          Question Information
                                                                                                                       • Level 1 • Challenge 23
                 Question description
                 Mr. Zach is the head of physical education in a school and the physical education department has decided to analyze the height of all the students.
                 The state championship tournaments are coming up and they have to select a proper basketball team and they want to collect the details of students.
                 Can you help them on this task?
                 Height is taken based on centimeter
                 If the height is ≤150 the person is short
                 If the height is ≥150 and ≤175 the person is average height
  Problem
                 If the height is >175 and ≤240 the person is Tall
                 1≤height≤10^4
                 Input Format:
                 Single line input has decimal value which specifies height in cm
                 Output Format:
                 Print whether the person is "Tall", "Average Height" or "Short"
import java.io.*;
import java.util.Scanner;
public class Class232241010042 {
              public static void main(String[] args) {
             float height;
             Scanner sc = new Scanner(System.in);
             height = sc.nextFloat();
             if (height <= 150){
                 System.out.println("Short");
             }
```

```
else if (height >= 150 && height <= 175){
                    System.out.println("Average Height");
                }
                else if (height > 175 && height <= 240){
                    System.out.println("Tall");
                }
                else{
                    System.out.println("Height is not Found");
                }
                }
}
                                                                                                        Question Information
                                                                                                                                                           • Level 1 • Challenge 24
                  Robert is playing in a T2O cricket match. In a match, Team A plays for 20 overs. In a single over, the team gets to play 6 times, and in each of these 6 tries, they can score a maximum of 6 runs. After Team A's 20 overs are finished, Team B similarly plays for 20 overs and tries to get a higher total score than the first team. The team with the higher total score at the end wins the match.
                 Robert is in Team B. Team B. Team A has already played their 20 overs, and have gotten a score of R. Robert's Team B has started playing, and have already scored C runs in the first O overs. In the remaining 20-O overs, find whether it is possible for Robert's Team B to get a score high enough to win the game. That is, can their final score be strictly larger than R?
   Problem
                  There is a single line of input, with three integers, R, O,C.
                  Output Format:
                  Output in a single line, the answer, which should be "YES" if it's possible for Robert's .Team B to win the match and "NO" if not
import java.io.*;
import java.util.Scanner;
public class Class232241010042 {
                 public static void main(String[] args) {
          int r,o,c;
          Scanner input = new Scanner(System.in);
                     r = input.nextInt();
                     o = input.nextInt();
                     c = input.nextInt();
                    int run = 20 - o;
                    int result = 36 * run;
```

```
int sum = c + result;
               if(r < sum){
         System.out.println("YES");
     } else{
          System.out.println("NO");
                }
               }
}
                                                  Control and Looping
                                                                                      Question Information
                                                                                                                              • Level 1 • Challenge 25
                 Bruce has just entered a lottery contest where he gets a chance to win 1000$
                He must answer a simple question to qualify for the next round
                He has to count the number of multiples of 7 between 1 and the given number \boldsymbol{n}
                 Can you help him to win this lottery so that he can have a nice summer vacation?
  Problem
                1≤n≤10^5
                Input Format:
Single line input has integer value n
                 Output Format:
                 Print the number of multiples of 7 between 1 to n
import java.io.*;
import java.util.Scanner;
public class Class232241010042{
             public static void main(String[] args) {
                        Scanner in = new Scanner(System.in);
                        long n,m=0;
                        n=in.nextLong();
                        for(int i=1;i<=n;i++){
                            if(i%7==0) m++;}
                        System.out.println(m);
            }
}
```

```
Problem

Problem

| Problem | Problem | Problem | Problem | Properties | Problem | Pro
```

```
import java.io.*;
import java.util.*;
public class Class232241010042 {
         public static void main(String[] args) {
                 Scanner scanner = new Scanner(System.in);
                 int T = scanner.nextInt();
                 while (T-->0) {
                          int a = scanner.nextInt();
                          int b = scanner.nextInt();
                          int c = scanner.nextInt();
                          int x = scanner.nextInt();
                          int y = scanner.nextInt();
                          int i;
                          boolean flag = false;
                          for (i = 0; i \le a; i++) if (i + b == x \&\& a - i + c == y) flag = true;
                          for (i = 0; i \le b; i++) if (i + a == x \&\& b - i + c == y) flag = true;
                          //for (i = 0; i <= c; i++) if (i + a == x && c - i + b == y) flag = true;
                          if (flag) System.out.println("YES");
                          else System.out.println("NO");
                 }
        }
}
```

Course	JAVA	Session	Control and Looping	Question Information	• Level 1 • Challenge 27
Problem	will be able to do  Constraints:  1≤T≤10^3  0≤X,Y≤10^8  X+Y>0  Input Format:  The first line of inp  The description of  Output Format:	worth 1 rupee each and Y coins so.  uut contains a single integer T, d	worth 2 rupees each. He wants to distribute all of the length of the length of the number of testcases.  ase consists of a single line of input containing two sp		eived by each of them is the same. Find out whether Max

```
import java.io.*;
import java.util.*;
public class Class232241010042{
  public static void main(String[] args){
  Scanner in =new Scanner(System.in);
    int t=in.nextInt();
    while(t-->0){}
      int x=in.nextInt();
      int y=in.nextInt();
      int s=(x*1)+(y*2);
    if(s%2==0)
    System.out.println("YES");
    else System.out.println("NO");
    }
  }
}
```

```
Course
                                                          Control and Looping
                                                                                                 Question Information
                                                                                                                                                 • Level 1 • Challenge 28
               Ralph is the organizer and promoter for the magnum opus Beatdown
               There are n people who want to take part in Beatdown. In the competition, a team should consist of exactly two people (as opposed to the real contest, where single-member teams are allowed). Of course, a person can only
               participate in a single team. Out of these, 2 * m people have already formed their teams, i.e. there are m teams already formed. The remaining people want to participate and make teams amongst themselves. Can you ple
               tell whether it is possible to divide them into teams so that all the n people can participate?
               1 \le T \le 100
               2 \le n \le 100
  Problem
               The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows.
               The first line of each test case contains two space separated integers n,\ m.
               The i-th of the next m lines contains two space separated integers u_{ir}, v_i denoting that the pair of people u_{ir} and v_i have decided to form a team
               For each test case, output "yes" or "no" (without quotes) corresponding to the answer of the problem.
import java.io.*;
import java.util.Scanner;
public class Class232241010042 {
               public static void main(String[] args) {
                    Scanner x = new Scanner(System.in);
                    int t = x.nextInt();
                    int n,m;
                    for(int i=0; i<t; i++){
                        n=x.nextInt();
                        m=x.nextInt();
                        while(m>0){
                            int u = x.nextInt();
                            int v = x.nextInt();
                            m--;}
                            if(n%2==0)
                            System.out.println("yes");
                            else
                            System.out.println("no");
                   }
```

```
Control and Looping
                                                                                          Question Information
                                                                                                                                    • Level 1 • Challenge 29
   Course
                Stephen has three shoes of the same size lying around. Each shoe is either a left shoe (represented using 0) or a right shoe (represented using 1). Given A, B, C, representing the information for each shoe, find out whether he can go out now, wearing one left shoe and one right shoe.
                 1≤T≤8
                0≤A,B,C≤1
   Problem
                 The first line contains an integer T, the number of test cases. Then the test cases follow
                 Each test case contains a single line of input, three integers A, B, C.
                 For each test case, output in a single line the answer: 1 if it's possible to go out with a pair of shoes and 0 if not.
import java.io.*;
import java.util.Scanner;
public class Class232241010042 {
              public static void main(String[] args) {
                           int a,b,c;
                           Scanner input = new Scanner(System.in);
                           int t = input.nextInt();
                           while(t-->0){}
                               a = input.nextInt();
                               b = input.nextInt();
                               c = input.nextInt();
                               int sum=a+b+c;
                               if(sum>=1&&sum<=2)
                               System.out.println(1);
                               else
                               System.out.println(0);
                           }
             }
```

```
Course

JAVA

Session

Control and Looping

Question Information

• Level 1 • Challenge 30

Question description

There are three friends, let's call them Ben, Ray and Roger. They made the following statements:

• Ben: "I have x dollars more than Ray."

• Ray: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

• Roger: "I have x dollars more than Roger."

You do not know the exact values of x, y, z. Instead, you are given their absolute values, i.e. X = |x|, Y = |y| and Z = |z|. Note that x, y, z may be negative; "having -d dollars more" is the same as "having d dollars less".

Find out if there is some way to assign amounts of money to Ben, Ray, Roger such that all of their statements are true.

Constraints

1sts 1000

1sX,YZ=1000

Input Format:

The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.

The first and only line of each test case contains three space-separated integers X, Y and Z.

Output Format:

For each test case, print a single line containing the string "yes" if the presented scenario is possible or "no" otherwise (without quotes)
```