**import** java.util.Scanner;

**public** **class** Solution {

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

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

            System.out.println("================================");

**for**(**int** i=0;i<3;i++){

                String s1=sc.next();

**int** x=sc.nextInt();

                System.out.printf("%-14s %03d\n",s1,x);

*//Complete this line*

            }

            System.out.println("================================");

    }

}

--------------------------------------------------------------------------

**import** java.util.\*;

**import** java.io.\*;

**class** Solution{

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

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

**int** t=in.nextInt();

**for**(**int** i=0;i<t;i++){

**int** result=0;

**int** a = in.nextInt();

**int** b = in.nextInt();

**int** n = in.nextInt();

**for** (**int** j = 0; j < n; j++ ){

**if**(j==0){

             result = result + (a + (**int**)Math.pow(2,j) \* b);

             }

**else**{

                        result = result + ((**int**)Math.pow(2,j) \* b);

                    }

                    System.out.print(result+" ");

                }

                System.out.println();

            }

        }

    }

-------------------------------------------------------------------------

**import** java.util.\*;

**import** java.io.\*;

**class** Solution{

**public** **static** **void** main(String []argh)

    {

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

**int** t=sc.nextInt();

**for**(**int** i=0;i<t;i++)

        {

**try**

            {

**long** x=sc.nextLong();

                System.out.println(x+" can be fitted in:");

**if**(x>=-128 && x<=127){

                System.out.println("\* byte");}

**if**(x>=-32768 && x<=32767)

                {

                    System.out.println("\* short");

                }

**if**(x>=-2147483648 && x<=2147483647)

                {

                    System.out.println("\* int");

                }

**if**(x>=-9223372036854775808 && x<=9223372036854775807)

                {

                    System.out.println("\* long");

                }

*//Complete he code*

            }

**catch**(Exception e)

            {

                System.out.println(sc.next()+" can't be fitted anywhere.");

            }

        }

    }

}

import java.util.\*;

import java.io.\*;

class Solution{

    public static void main(String []argh)

    {

        Scanner sc = new Scanner(System.in);

        int t=sc.nextInt();

        for(int i=0;i<t;i++)

        {

            try

            {

                long x=sc.nextLong();

                System.out.println(x+" can be fitted in:");

                if(x>=-128 && x<=127)System.out.println("\* byte");

                //Complete the code

                if (x>=-32768 && x<=32767)System.out.println("\* short");

                if (x>=-Math.pow(2,31) && x<=Math.pow(2,31)-1)System.out.println("\* int");

                if (x>=-Math.pow(2,63) && x<=Math.pow(2,63)-1)System.out.println("\* long");

            }

            catch(Exception e)

            {

                System.out.println(sc.next()+" can't be fitted anywhere.");

            }

        }

    }

}