import java.util.Scanner;

import java.util.Arrays;

public class MySixthJavaProgram {

public static int angleCalculation(double hour, double minute){

if (hour<0 || minute< 0 || hour>12 || minute>60){

System.out.println("Wrong input");

}if (hour == 12){

hour = 0;

}

if (minute == 60){

minute = 0;

hour += 1;

if(hour>12){

hour = hour-12;

}

}

int hangle = (int)(0.5 \* (hour\*60 + minute));

int mangle = (int)(6\*minute);

int angle = Math.abs(hangle - mangle);

angle = Math.min(360-angle, angle);

return angle;

}

public static void main (String[] args){

Scanner sc=new Scanner(System.in);

int array[]=new int[2];

array[0]=sc.nextInt();

char c=sc.next().charAt(0);

array[1]=sc.nextInt();

System.out.println(angleCalculation(array[0], array[1])+" degree");

}

}

Input : 6 : 00

Output : 180 degree