#include<iostream>

#include <iomanip>

using namespace std;

// Task 1

// AZN - i seçimdən asılı olaraq(1, 2 və ya 3) Avroya, Dollara, Rubla çevirən program

// yazın. (1 - Avro, 2 - Dollar və s.)

//void main()

//{

// cout << "\n A program that converts AZN into Euros, Dollars and Rubles depending on your choice." << endl;

// cout << " --------------------------------------------------------------------------------------" << endl;

//

// float manat = 0;

// cout << "\n Enter the amount of AZN = ";

// cin >> manat;

//

// char convertTo = ' ';

// cout << " Convert to Dollar (1) | Euro (2) | Ruble (3) = ";

// cin >> convertTo;

//

//

// const float exchangeRateOfDollar = 0.59;

// const float exchangeRateOfEuro = 0.52;

// const float exchangeRateOfRuble = 43.88;

//

//

// if (convertTo == '1')

// {

// float manatToDollar = 0;

// manatToDollar = manat \* exchangeRateOfDollar;

// if (manatToDollar == int(manatToDollar))

// {

// cout << "\n " << manat << " AZN is " << manatToDollar << " USD." << endl;

// }

// else

// {

// cout << "\n " << manat << " AZN is " << (int)manatToDollar << " dollars " << (int)(100 \* (manatToDollar - (int)manatToDollar)) << " cents.\n";

// }

// }

//

// else if (convertTo == '2')

// {

// float manatToEuro = 0;

// manatToEuro = manat \* exchangeRateOfEuro;

// if (manatToEuro == (int)manatToEuro)

// {

// cout << "\n " << manat << " AZN is " << manatToEuro << " EUR." << endl;

// }

// else

// {

// cout << "\n " << manat << " AZN is " << (int)manatToEuro << " euros " << (int)(100 \* (manatToEuro - (int)manatToEuro)) << " cents.\n";

// }

// }

//

// else if (convertTo == '3')

// {

// float manatToRuble = 0;

// manatToRuble = manat \* exchangeRateOfRuble;

// if (manatToRuble == (int)manatToRuble)

// {

// cout << "\n " << manat << " AZN is " << manatToRuble << " RUB." << endl;

// }

// else

// {

// cout << "\n " << manat << " AZN is " << (int)manatToRuble << " rubles " << (int)(100 \* (manatToRuble - (int)manatToRuble)) << " kopecks.\n";

// }

// }

//

// else

// {

// cout << "\n The number you entered does not match the numbers provided.\n Dollar (1) | Euro (2) | Ruble (3)" << endl;

// }

//}

// Task 2

// Düz xəttin absis və ya ordinat oxuna paralel olub olmamasını yoxlayın.

/\*void main()

{

cout << "\n The program checks whether the straight line is parallel to the abscissa or ordinate axis.";

cout << "\n --------------------------------------------------------------------------------------------";

cout << "\n\n y = c, c > 0" << endl;

cout << "\n " << endl;

cout << " y/|\\ " << endl;

cout << " | " << endl;

cout << " \_ \_ \_ \_ \_|\_ \_ \_ \_c\_ " << endl;

cout << " | " << endl;

cout << " \_ \_ \_ \_ \_ \_|\_ \_ \_ \_ \_ \_\\x " << endl;

cout << " | / " << endl;

cout << " | " << endl;

cout << " | " << endl;

cout << " | " << endl;

cout << " | " << endl;

cout << "\n\n y = c, c < 0" << endl;

cout << "\n " << endl;

cout << " y/|\\ " << endl;

cout << " | " << endl;

cout << " | " << endl;

cout << " | " << endl;

cout << " \_ \_ \_ \_ \_ \_|\_ \_ \_ \_ \_ \_\\x " << endl;

cout << " | / " << endl;

cout << " | " << endl;

cout << " \_ \_ \_ \_ \_|\_ \_ \_ \_c\_ " << endl;

cout << " | " << endl;

cout << " | " << endl;

cout << "\n\n x = a, a > 0" << endl;

cout << "\n " << endl;

cout << " y/|\\ " << endl;

cout << " | |a " << endl;

cout << " | | " << endl;

cout << " | | " << endl;

cout << " \_ \_ \_ \_ \_ \_|\_ \_ \_|\_ \_ \_\\x " << endl;

cout << " | | / " << endl;

cout << " | | " << endl;

cout << " | | " << endl;

cout << " | | " << endl;

cout << " | " << endl;

cout << "\n\n x = a, a < 0" << endl;

cout << "\n " << endl;

cout << " y/|\\ " << endl;

cout << " a| | " << endl;

cout << " | | " << endl;

cout << " | | " << endl;

cout << " \_ \_ \_|\_ \_ \_|\_ \_ \_ \_ \_ \_\\x " << endl;

cout << " | | / " << endl;

cout << " | | " << endl;

cout << " | | " << endl;

cout << " | | " << endl;

cout << " | " << endl;

char choice = ' ';

cout << "\n Which one do you choose? \n y = c (1) | x = a (2)\n = ";

cin >> choice;

if (choice == '1')

{

cout << "\n Line is parallel to the abscissa (x) axis." << endl;

}

else if (choice == '2')

{

cout << "\n Line is parallel to the ordinate (y) axis." << endl;

}

else

{

cout << "\n The number you entered does not match the numbers provided.\n y = c (1) | x = a (2)" << endl;

}

}\*/

// Task 3

// Endirimi hesablayan program yazırıq. İstifadəçi qiyməti və qramı daxil edir.

// 100qr - 3 %, 200 qr - 5 %, 300 və daha çox 7 % endirim edilir.

//void main()

//{

// cout << "\n The user enters the price and the gram." << endl;

// cout << " The program calculates the discount." << endl;

// cout << " ---------------------------------------" << endl;

//

// float price = 0;

// cout << "\n Enter the price of product = ";

// cin >> price;

//

// float discount = 0;

// cout << " Enter the discount of product = ";

// cin >> discount;

//

// float newPrice = 0;

// newPrice = price \* (discount / 100);

//

//

// if (discount > 100)

// {

// cout << "\n Discount cannot be greater than 100%." << endl;

// }

// else if (discount < 0)

// {

// cout << "\n Discount cannot be less than 0%." << endl;

// }

// else

// {

// if (newPrice == (int)newPrice)

// {

// cout << "\n Discount of good is " << newPrice << " dollars." << endl;

// }

// else

// {

// cout << "\n Discount of good is " << (int)newPrice << " dollars " << (int)(100 \* (newPrice - (int)newPrice)) << " cents.\n";

// }

// }

//}

//Task 4

//Kəsr ədədin tam hissəsinin olub olmadığını yoxlayan program yazın .

//void main()

//{

// cout << "\n The program checks whether a fraction has a integer part." << endl;

// cout << " -------------------------------------------------------------" << endl;

//

// float number = 0;

// cout << "\n Enter the number = ";

// cin >> number;

//

// int numberInteger = (int)number;

// float numberFraction = number - numberInteger;

//

// cout << "\n Integer part of the " << number << " is " << numberInteger << "." << endl;

// cout << " Fraction part of the " << number << " is " << numberFraction << "." << endl;

//

// if (numberInteger == 0)

// {

// cout << "\n " << number << " does not have an integer part." << endl;

// }

// else

// {

// cout << "\n " << number << " does have an integer part." << endl;

// }

//}

// Task 5

// . Tarix və zaman daxil edilir, düzgün daxil edilib edilmədiyini yoxlayın

// (Məsələn 25:62 saat daxil edilə bilməz)

//void main()

//{

// cout << "\n Date and time are being entered." << endl;

// cout << " The program check if they are entered correctly." << endl;

// cout << " ---------------------------------------------------" << endl;

//

// int mistake = 0;

//

// int year = 0;

// cout << "\n Enter the year = ";

// cin >> year;

//

// int month = 0;

// cout << " Enter the month = ";

// cin >> month;

//

// int day = 0;

// cout << " Enter the day = ";

// cin >> day;

//

// int hour = 0;

// cout << " Enter the hour = ";

// cin >> hour;

//

// int minute = 0;

// cout << " Enter the minute = ";

// cin >> minute;

//

// int second = 0;

// cout << " Enter the second = ";

// cin >> second;

//

// if (year <= 0)

// {

// cout << "\n Incorrect entry of the year!" << endl;

// cout << " Year cannot be less than 0 or equal to 0! " << endl;

// mistake++;

// }

//

// if (month <= 0 || month >= 13)

// {

// cout << "\n Incorrect entry of the month!" << endl;

// cout << " Month cannot be less than 1 or greater than 12!" << endl;

// mistake++;

// }

//

//

// if (day > 31)

// {

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in any month!" << endl;

// mistake++;

// }

//

// if (day < 0)

// {

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " Day cannot be less than 0!" << endl;

// mistake++;

// }

//

// else

// {

// if (month == 1 || month == 3 || month == 5 || month == 7 || month == 8 || month == 10 || month == 12)

// {

// if (day > 31)

// {

// mistake++;

// if (month == 1)

// {

// string month;

// month = "January";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 3)

// {

// string month;

// month = "March";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 5)

// {

// string month;

// month = "Mai";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 7)

// {

// string month;

// month = "July";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 8)

// {

// string month;

// month = "August";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 8)

// {

// string month;

// month = "October";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 8)

// {

// string month;

// month = "December";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// }

// }

//

// else if (month == 2 || month == 4 || month == 6 || month == 9 || month == 11)

// {

// if (day > 30)

// {

// mistake++;

// if (month == 2)

// {

// string month;

// month = "February";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 4)

// {

// string month;

// month = "April";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 6)

// {

// string month;

// month = "June";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 9)

// {

// string month;

// month = "September";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// else if (month == 11)

// {

// string month;

// month = "November";

// cout << "\n Incorrect entry of the day!" << endl;

// cout << " There are not " << day << " days in " << month << "." << endl;

// }

//

// }

// }

//

// }

//

// if (hour > 23 || hour < 0)

// {

// cout << "\n Incorrect entry of the hour!" << endl;

// cout << " Hour cannot be less than 1 or greater than 23!" << endl;

// mistake++;

// }

//

// if (minute > 59 || minute < 0)

// {

// cout << "\n Incorrect entry of the minute!" << endl;

// cout << " Minute cannot be less than 1 or greater than 59!" << endl;

// mistake++;

// }

//

// if (minute > 59 || minute < 0)

// {

// cout << "\n Incorrect entry of the second!" << endl;

// cout << " Second cannot be less than 1 or greater than 59!" << endl;

// mistake++;

// }

//

// if (mistake == 0)

// {

// cout << "\n Everything was entered correctly!" << endl;

//

// cout << " \n This is the date entered. ";

// cout << "\n -----------------------------";

// cout << "\n\t " << setw(2) << setfill('0') << hour << ":" << setw(2) << setfill('0') << minute << ":" << setw(2) << setfill('0') << second << "\n\t " << setw(2) << setfill('0') << month << "/" << setw(2) << setfill('0') << day << "/" << year << endl;

// }

//}

// Task 6

// İstifadəçi doğulduğu ay və günü daxil edir onun bürcünü tapan program yazın.

//void main()

//{

// cout << "\n User enters the month and the day of his or her birth." << endl;

// cout << " The program finds his zodiac sign." << endl;

// cout << " --------------------------------------------------------" << endl;

//

// int month = 0;

// cout << "\n Enter the month of your birth = ";

// cin >> month;

//

// int day = 0;

// cout << " Enter the day of your birth = ";

// cin >> day;

//

// cout << "\n";

//

// if (month == 3 && day >= 21 && day >= 31 || month == 4 && day <= 1 && day <= 19)

// {

// cout << " Your zodiac sign is ARIES." << endl;

// }

//

// else if (month == 4 && day >= 20 && day <= 30 || month == 5 && day >= 1 && day <= 20)

// {

// cout << " Your zodiac sign is TAURUS." << endl;

// }

//

// else if (month == 5 && day >= 21 && day <= 31 || month == 6 && day >= 1 && day <= 20)

// {

// cout << " Your zodiac sign is GEMINI." << endl;

// }

//

// else if (month == 6 && day >= 21 && day <= 30 || month == 7 && day >= 1 && day <= 22)

// {

// cout << " Your zodiac sign is CANCER." << endl;

// }

//

// else if (month == 7 && day >= 23 && day <= 31 || month == 8 && day >= 1 && day <= 22)

// {

// cout << " Your zodiac sign is LEO." << endl;

// }

//

// else if (month == 8 && day >= 23 && day <= 31 || month == 9 && day >= 1 && day <= 22)

// {

// cout << " Your zodiac sign is VIRGO." << endl;

// }

//

// else if (month == 9 && day >= 23 && day <= 30 || month == 10 && day >= 1 && day <= 22)

// {

// cout << " Your zodiac sign is LIBRA." << endl;

// }

//

// else if (month == 10 && day >= 23 && day <= 31 || month == 11 && day >= 1 && day <= 21)

// {

// cout << " Your zodiac sign is SCORPIO." << endl;

// }

//

// else if (month == 11 && day >= 22 && day <= 30 || month == 12 && day >= 1 && day <= 21)

// {

// cout << " Your zodiac sign is SAGITTARIUS." << endl;

// }

//

// else if (month == 12 && day >= 22 && day <= 31 || month == 1 && day >= 1 && day <= 19)

// {

// cout << " Your zodiac sign is CAPRICORN." << endl;

// }

//

// else if (month == 1 && day >= 20 && day <= 31 || month == 2 && day >= 1 && day <= 18)

// {

// cout << " Your zodiac sign is AQUARIUS." << endl;

// }

//

// else if (month == 2 && day >= 19 && day <= 29 || month == 3 && day <= 1 && day >= 20)

// {

// cout << " Your zodiac sign is PISCES." << endl;

// }

// else

// {

// cout << " Wrong day or month." << endl;

// }

//}