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//Name: Yashas Ravi
//Period: 12
//daysElapsed.java

import java.util.Scanner;
public class DaysElapsed {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		Scanner sc = new Scanner (System.in);
		int year = 0;
		int Smonth = 0;
		int Emonth = 0;
		int Sday = 0;
		int Eday = 0;
		boolean a = true;


while (a == true) {

		System.out.print("Enter the year");
		year = sc.nextInt();

		System.out.print("Enter start month number");
		Smonth = sc.nextInt();

		System.out.print("Enter end month number");
		Emonth = sc.nextInt();

		System.out.print("Enter start day number");
		Sday = sc.nextInt();

		System.out.print("Enter end day number");
		Eday = sc.nextInt();


	if (year > 0 && year % 4 == 0 && (year % 100 != 0 || year % 400 == 0)) {


		if (Emonth >= Smonth && Smonth > 0 && Emonth > 0 && (Smonth == 2 ||
Emonth == 2 || (Smonth < 2 && Emonth > 2))) {

			if (((Sday <= 29) || (Eday <= 29)) && (Sday > 0)) {

				System.out.print("There are " + (daycount(Smonth, Emonth,
Sday, Eday, year) + 1) + " days");


			}

			else {
				System.out.print("Error, Enter again!");
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                }

            }

            else if (Emonth >= Smonth && Smonth > 0 && Emonth > 0) {

                if ((Sday <= 30 + (Math.ceil(Math.abs(7.5-Smonth))) % 2) && (Eday
<= 30 + (Math.ceil(Math.abs(7.5-Emonth)))  % 2) && (Sday > 0)) {

                    System.out.print("There are " + (daycount(Smonth, Emonth,
Sday, Eday, year) + 1) + " days");

                }

                else {
                    System.out.print("Error, Enter again!");

                }

            }

            else {

                System.out.print("Error, Enter again!");

            }

        }

        else if (year > 0) {

            if (Emonth >= Smonth && Smonth > 0 && Emonth > 0 && (Smonth == 2 ||
Emonth == 2 || (Smonth < 2 && Emonth > 2))) {

                if (((Sday <= 28) || (Eday <= 28)) && ((Emonth >= Smonth) && (Sday
> 0))) {

                    System.out.print("There are " + (daycount(Smonth, Emonth,
Sday, Eday, year) + 1) + " days");

                }

            }

            else if (Emonth >= Smonth && Smonth > 0 && Emonth > 0) {

                if ((Sday <= 30 + (Math.ceil(Math.abs(7.5-Smonth))) % 2) && (Eday
<= 30 + (Math.ceil(Math.abs(7.5-Emonth))) % 2 && (Emonth >= Smonth) && (Sday > 0))) {

                    System.out.print("There are " + (daycount(Smonth, Emonth,
Sday, Eday, year) + 1) + " days");

                }

            }
```

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		else {

			System.out.print("Error, Enter again!");

		}

	}

	else {

		System.out.print("Error, Enter again!");


	}

	a = false;

}

	if (a == false) {

		a = true;
		year = 0;
		Smonth = 0;
		Emonth = 0;
		Sday = 0;
		Eday = 0;


	}

}


private static int daycount (int Smonth, int Emonth, int Sday, int Eday, int year) {

	if (Smonth != Emonth) {

	int sum;

		if (year % 4 == 0 && (year % 100 != 0 || year % 400 == 0)) {
			if (Smonth == 2) {
				sum = 29 - Sday;
			}

			else {
				sum = (int) (30 + (Math.ceil(Math.abs(7.5 - Smonth))) % 2 -
Sday);
			}
		}

		else {
			if (Smonth == 2) {
				sum = 28 - Sday;
```

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                }

                else {
                        sum = (int) (30 + (Math.ceil(Math.abs(7.5 - Smonth))) % 2 -
Sday);
                }
        }

        for (int k = Smonth+1; k < Emonth; k++) {

                if (year % 4 == 0 && (year % 100 != 0 || year % 400 == 0)) {

                        if (k == 2) {
                                sum += 29;
                        }

                        else {
                                sum +=  30 + (Math.ceil(Math.abs(7.5 - k))) % 2;
                        }

                }

                else {

                        if (k == 2) {
                                sum += 28;
                        }

                        else {
                                sum +=  30 + (Math.ceil(Math.abs(7.5 - k))) % 2;
                        }

                }

        }

        sum = sum + Eday;

        return sum;
    }

    else {

        return (Eday - Sday);

    }

}


}
```