## 2. Week 2- FLOW CONTROL STATEMENTS

You have recently seen a motivational sports movie and want to start exercising regularly. Your coach tells you that it is important to get up early in the morning to exercise. She sets up a schedule for you:

On weekdays (Monday - Friday), you have to get up at 5:00. On weekends (Saturday & Sunday), you can wake up at 6:00. However, if you are on vacation, then you can get up at 7:00 on weekdays and 9:00 on weekends.

Write a program to print the time you should get up.

Input Format

Input containing an integer and a boolean value.

The integer tells you the day it is (1-Sunday, 2-Monday, 3-Tuesday, 4-Wednesday, 5-Thursday, 6-Friday, 7-Saturday). The boolean is true if you are on vacation and false if you're not on vacation

You have to print the time you should get up.

Example Input:

1 false

Output:

6:00

Example Input:

5 false

Output:

5:00

Example Input:

1 true

Output:

9:00

## For example:

Input	Resul
1 false	6:00
5 false	5:00
1 true	9:00

```
import java.util.Scanner;
public class Alarm{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();
        String[] input=s.split(" ");
        int day=Integer.parseInt(input[0]);
        boolean isVacation=Boolean.parseBoolean(input[1]);
        if(day==2 || day==3 || day==4 || day==5 || day==6){
            if(isVacation){
                System.out.println("7:00");
            }else{
                System.out.println("5:00");
        }else if(day==1 \mid \mid day == 7){
            if(isVacation){
                System.out.println("9:00");
                System.out.println("6:00");
```

	Input	Expected	Got	
~	1 false	6:00	6:00	~
~	5 false	5:00	5:00	~
~	1 true	9:00	9:00	~
Passed all tests! ✓				

```
Consider the following sequence:

1st term: 1
2nd term: 121
3rd term: 1213121
4th term: 121312141213121
And so on. Write a program that takes as parameter an integer n and prints the nth terms of this sequence.

Example Input:

1
Output:

1
Example Input:
4
Output:
121312141213121

For example:

Input Result

1
1
1
```

```
import java.util.Scanner;
public class Sequence{
   public static String generateSequence(int n){
      if(n==1) return "1";

      String prevTerm=generateSequence(n-1);
      return prevTerm+" "+n+" "+prevTerm;

}

public static void main(String[] args){
      Scanner sc= new Scanner(System.in);
      int n=sc.nextInt();
      String res=generateSequence(n);
      System.out.println(res);
}
```

	Input	Expected	Got	
~	1	1	1	<b>~</b>
~	2	1 2 1	1 2 1	<b>~</b>
~	3	1 2 1 3 1 2 1	1 2 1 3 1 2 1	<b>~</b>
~	4	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	<b>~</b>

Passed all tests! 🗸

1 2 1

1 2 1 3 1 2 1

1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

3

```
Consider a sequence of the form 0, 1, 1, 2, 4, 7, 13, 24, 44, 81, 149...
Write a method program which takes as parameter an integer n and prints the nth term of the above sequence. The nth term will fit in an integer value.
Example Input:
5
Output:
Example Input:
8
Output:
24
Example Input:
11
Output:
149
For example:
 Input Result
 8
        24
 11
        149
```

	Input	Expected	Got	
~	5	4	4	~
~	8	24	24	~
~	11	149	149	~

Passed all tests! 🗸