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/*
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Course: CSCI-136
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Assignment: HW E5.16

    Write a function that computes the weekday of a given date, using a formula
known as Zeller’s congruence. Let
        d = the day of the month
        mm = the modified month (3 = March, ..., 12 = December, 13 = January, 14 =
February)
        w = the weekday (0 = Monday, 1 = Tuesday, ..., 6 = Sunday)

*/

#include <iostream>

using namespace std;


string zellar(int year, int month, int day){
    const string WEEKDAYS[7] = {"Monday", "Tuesday", "Wednesday", "Thursday",
"Friday", "Saturday", "Sunday"};
    return     WEEKDAYS[((day+5+
                (  ( 26*(month+1) )/10  )  +  (  ( 5*(year%100) )/4)  +  (  (
21*(year/100) )/4)
                )%7)];
}

int main(){
    int y = 2018;
    int m = 9;
    int d = 26;
    cout << zellar(y,m,d) << endl;

    return 0;
}
```