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/*
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Course: CSCI-135
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Assignment: Exercise 5.16, e.g., Lab1C
```

```
Give day when given the date
```

```
/*
```

```
#include <cmath>
```

```
#include <iostream>
```

```
using namespace std;
```

```
int zellerCongruence(int dd, int mm, int yyyy); //initialize Zeller's Congruence
```

```
int main()
```

```
{
```

```
    int day = 0;
```

```
    int month = 0;
```

```
    int year = 0;
```

```
    int weekday = 0;
```

```
    cout << "please enter date." << endl << "Enter month in the form of mm: ";
```

```
    cin >> month;
```

```
    cout << "Enter numeric day: ";
```

```
    cin >> day;
```

```
    cout << "Enter year in the form of yyyy: ";
```

```
    cin >> weekday;
```

```
    weekday = zellerCongruence(day,month,year);
```

```
    if(weekday == 0) //prints the day associated with number
```

```
    {
```

```
        cout << "Monday";
```

```
    }
```

```
    else if(weekday == 1)
```

```
    {
```

```
        cout << "Tuesday";
```

```
    }
```

```
    else if(weekday == 2)
```

```
    {
```

```
        cout << "Wednesday";
```

```
    }
```

```
    else if(weekday == 3)
```

```

    {
        cout << "Thursday";
    }
    else if(weekday == 4)
    {
        cout << "Friday";
    }
    else if(weekday == 5)
    {
        cout << "Saturday";
    }
    else if(weekday == 6)
    {
        cout << "Sunday";
    }
    else
    {
        cout << "error";
    }
}

int zellerCongruence(int dd, int mm, int yyyy) //Zeller's Congruence
{
    return (dd + 5 + ((26*(mm +1))/10) +
            ((5*(yyyy % 100))/4)+ ((21*(yyyy/100))/4))%7;
}

```