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/*
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Assignment: HW 5.16
Zeller Congruence to determine day of week
*/
#include <iostream>
using std::cout;
using std::endl;
using std::string;
string zeller_congruence(int d, int mm, int year) {
       if (mm == 13 || mm == 14) {
               year--;
       }
       int w = (d + 5 + ((26 * (mm + 1)) / 10) + ((5 * (year % 100)) / 4) + ((21 * (year / 100)) / 4))
% 7;
       string days[] = { "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday",
"Sunday"};
       return days[w];
}
int main (){
       // prints the days of the week of the last ten Christmases
       for (int year = 2017; year > 2007; year--) {
               cout << "In the year " << year << ", Christmas fell on a " <<
zeller_congruence(25, 1, year) << endl;</pre>
       }
       return 0;
}
zmonth = ((month + 9) % 12) + 3; <- maps normal months to zeller months
month = month - 12 * (month / 13); <- maps zeller months to normal months
*/
```