```cpp
/*
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Assignment: HW5.16

Given the date, month, and year, this program is able to figure out which weekday
the given date is.
*/

#include <iostream>

using namespace std;

int zeller(int d, int mm, int y) {

    if (mm == 13 || mm == 14) {
        y -= 1;
    }

    int w = d + 5;

    int partA = 0;
    int partB = 0;
    int partC = 0;

    partA = ((26 * (mm + 1)) / 10);
    partB = (5 * (y % 100)) / 4;
    partC = (21 * (y / 100)) / 4;

    w += partA + partB + partC;

    w = w % 7;

    return w;

}
```