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//aufgabe1.c
//Übung 3 Aufgabe 1 GIP
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#include <stdio.h>
#include <string.h>
#include <math.h>

char days[7][15];

int main() {
    strcpy(days[0], "Montag");
    strcpy(days[1], "Dienstag");
    strcpy(days[2], "Mittwoch");
    strcpy(days[3], "Donnerstag");
    strcpy(days[4], "Freitag");
    strcpy(days[5], "Samstag");
    strcpy(days[6], "Sonntag");

    int d, m, y, j, k, wd;

    scanf("%d%d%d", &d, &m, &y);

    if(m <= 2) {
        m += 10;
    }

    j = y / 100;
    k = y % 100;

    wd = (int) (d + floor(13 * (m + 1) / 5.0) + k + floor(k / 4.0) + floor(j / 4.0) - 2 * j) % 7 - 1;

    if(wd <= 0) {wd += 7;}
    printf("Der Wochentag ist: %d\n", wd);
    printf("Das ist %s\n", days[wd]);
}
```