Diffchecker

- 62 Removals + 46 Additions

11 1 ~

```
1 #include <stdio.h>
   typedef enum {false, true} bool;
 4
 5 bool leap(int year)
   {
 6
            if(year%400 == 0){return true;}
 7
 8
            else if(year%100 == 0){return false;}
            else if(year%4 == 0){return true;}
 9
10
            else {return false;}
11
                                                                           9
12
                                                                          10
                                                                          12
                                                                          14
                                                                          15
13 int dayOfYear(int day, int month, int year)
14 {
                                                                          18
15
            int sum = 0;
                                                                          19
            bool last = true;
                                                                          20
            if (year < 1753) {return -1;}
17
                                                                          21
            else if (!(1<=month && month<=12)) {return -1;}</pre>
                                                                          22
18
19
            else
                                                                          23
20
                                                                          24
                    switch(month)
                                                                          25
22
                                                                          26
                                                                          27
23
                             case 12:
24
                             {
                                                                          28
                                     if(1<=day && day<=31){sum =
25
    sum +
                                                                          29
   day;}
                                     else {return -1;}
                                                                          30
26
27
                                     last = false;
                                                                          31
28
                                     day = 15;
                                                                          32
     //Safe number as it is counted later
29
                                                                          33
                             }
30
                             case 11:
                                                                          34
                                                                          35
31
                             {
                                     if(1<= day && day <=30)
                                                                          36
32
                                                                          37
33
34
                                              if(last)
                                                                          38
35
                                                                          39
                                              {
36
                                                      sum = sum +
                                                                          40
37
                                                      last = fals
                                                                          41
   e;
38
                                                                          42
                                                      day = 15;
39
                                              }
                                                                          43
                                              else {sum = sum +
```

```
1 #include <stdio.h>
  typedef enum {false, true} bool;
  // Check if year is leap
  bool leap(int year)
          return (year % 400 == 0) || ((year % 4 == 0) && (yea
  r % 100 != 0));
  // Check if the day is valid
  bool validDay(int day, int min, int max){
      return min <= day && day <= max;
  // Here we check the day of the year
  int dayOfYear(int day, int month, int year)
          int sum = 0;
          bool last = true;
          if (year < 1753) {return -1;}
          else if (month < 1 \mid | month > 12) {return -1;}
          else
                   switch(month)
                           case 12:
                           {
                                   if(validDay(day, 1, 31)){sum
  day;}
                                   else {return -1;}
                                   last = false;
                                   day = 15;
                           }
                           case 11:
                                   if(validDay(day, 1, 30))
                                           if(last)
                                                   sum += day;
                                                   last = fals
                                                   day = 15;
                                           else {sum += 30;}
```

```
30;}
                                                                         45
41
                                     }
                                                                                                               }
42
                                     else {return -1;}
                                                                         46
                                                                                                               else {return -1;}
43
                             }
                                                                          47
                                                                                                       }
                            case 10:
                                                                          48
                                                                                                       case 10:
44
45
                                                                          49
                             {
                                                                                                       {
                                                                                                               if(validDay(day, 1, 31))
                                     if(1<=day && day<=31)
46
                                                                         50
47
                                                                          51
48
                                              if(last)
                                                                          52
                                                                                                                       if(last)
49
                                                                          53
                                              {
                                                                                                                       {
                                                                          54
50
                                                      sum = sum +
                                                                                                                                sum += day;
   day;
51
                                                      last = fals
                                                                         55
                                                                                                                                last = fals
   e;
                                                                             e;
52
                                                      day = 15;
                                                                          56
                                                                                                                                day = 15;
53
                                                                          57
                                             }
                                                                                                                       }
                                              else {sum = sum +
                                                                          58
                                                                                                                        else {sum += 31;}
   31;}
55
                                                                          59
                                     }
                                     else {return -1;}
                                                                          60
                                                                                                               else {return -1;}
56
57
                                                                          61
                             }
                                                                                                       }
                             case 9:
                                                                                                       case 9:
                                                                          62
58
59
                             {
                                                                          63
                                                                                                       {
                                                                                                               if(validDay(day, 1, 30))
                                     if(1<=day && day<=30)
60
                                                                          64
61
                                     {
                                                                          65
                                                                                                               {
                                              if(last)
                                                                                                                       if(last)
62
                                                                          66
                                              {
                                                                         67
63
                                                                                                                       {
64
                                                      sum = sum +
                                                                          68
                                                                                                                                sum += day;
    day;
65
                                                      last = fals
                                                                          69
                                                                                                                                last = fals
   e;
                                                                             e;
66
                                                      day = 15;
                                                                          70
                                                                                                                                day = 15;
67
                                              }
                                                                          71
68
                                              else {sum = sum +
                                                                          72
                                                                                                                       else {sum += 30;}
    30;}
                                                                          73
69
                                     }
                                                                                                               }
70
                                     else {return -1;}
                                                                          74
                                                                                                               else {return -1;}
71
                                                                          75
                             }
                                                                                                       }
72
                             case 8:
                                                                          76
                                                                                                       case 8:
                                                                          77
73
                                                                                                               if(validDay(day, 1, 31))
74
                                     if(1<=day && day<=31)
                                                                          78
                                                                          79
75
76
                                              if(last)
                                                                          80
                                                                                                                       if(last)
77
                                                                          81
78
                                                      sum = sum +
                                                                          82
                                                                                                                                sum += day;
    day;
79
                                                      last = fals
                                                                         83
                                                                                                                                last = fals
   e;
                                                                             e;
80
                                                      day = 15;
                                                                          84
                                                                                                                                day = 15;
81
                                                                          85
                                                                                                                       }
                                                                          86
                                                                                                                        else {sum += 31;}
82
                                              else \{sum = sum + \}
   31;}
83
                                     }
                                                                         87
                                                                                                               }
84
                                     else {return -1;}
                                                                          88
                                                                                                               else {return -1;}
                             }
                                                                          89
                                                                                                       }
85
                                                                          90
86
                             case 7:
                                                                                                       case 7:
87
                             {
                                                                          91
                                                                                                               if(validDay(day, 1, 31))
88
                                     if(1<= day && day<=31)
                                                                          92
89
                                                                          93
90
                                              if(last)
                                                                         94
                                                                                                                       if(last)
                                              {
                                                                                                                        {
```

```
92
                                                                          96
                                                       sum = sum +
                                                                                                                                sum += day;
     day;
                                                       last = fals
 93
                                                                          97
                                                                                                                                last = fals
     e;
                                                                              e;
 94
                                                                          98
                                                                                                                                day = 15;
                                                       day = 15;
 95
                                              }
                                                                          99
                                                                                                                        }
                                                                         100
                                                                                                                        else {sum += 31;}
 96
                                               else \{sum = sum + \}
    31;}
 97
                                      }
                                                                         101
                                                                                                               }
 98
                                      else {return -1;}
                                                                         102
                                                                                                                else {return -1;}
 99
                              }
                                                                         103
                                                                                                       }
100
                              case 6:
                                                                         104
                                                                                                       case 6:
101
                              {
                                                                         105
                                                                                                       {
                                                                                                                if(validDay(day, 1, 30))
102
                                      if(1<=day && day<=30)
                                                                         106
103
                                                                         107
                                              if(last)
                                                                                                                        if(last)
104
                                                                         108
105
                                              {
                                                                         109
                                                                                                                        {
106
                                                                         110
                                                                                                                                 sum += day;
                                                       sum = sum +
107
                                                       last = fals
                                                                         111
                                                                                                                                last = fals
    e;
                                                                              e;
                                                                                                                                day = 15;
108
                                                       day = 15;
                                                                         112
109
                                              }
                                                                         113
                                                                                                                        }
110
                                               else \{sum = sum + 3
                                                                         114
                                                                                                                        else \{sum = sum + 3
    0;}
                                                                              0;}
111
                                                                         115
                                      else {return -1;}
                                                                         116
                                                                                                                else {return -1;}
112
113
                              }
                                                                         117
                                                                                                       }
                             case 5:
                                                                                                       case 5:
114
                                                                         118
115
                                                                         119
                              {
                                                                                                       {
                                      if(1<=day && day <=31)
                                                                                                                if(validDay(day, 1, 31))
                                                                         120
116
                                                                         121
117
                                      {
                                                                                                                {
                                                                                                                        if(last)
118
                                              if(last)
                                                                         122
119
                                               {
                                                                         123
                                                                                                                        {
120
                                                       sum = sum +
                                                                         124
                                                                                                                                 sum += day;
     day;
121
                                                       last = fals
                                                                         125
                                                                                                                                last = fals
    e;
                                                                              e;
122
                                                       day = 15;
                                                                         126
                                                                                                                                day = 15;
                                                                         127
123
                                              }
124
                                                                         128
                                                                                                                        else {sum += 31;}
                                              else \{sum = sum +
     31;}
125
                                                                         129
                                      }
                                                                                                               }
                                      else {return -1;}
                                                                         130
                                                                                                                else {return -1;}
126
127
                              }
                                                                         131
                                                                                                       }
128
                              case 4:
                                                                         132
                                                                                                       case 4:
129
                              {
                                                                         133
                                                                                                                if(validDay(day, 1, 30))
130
                                      if(1<= day && day <=30)
                                                                         134
131
                                      {
                                                                         135
                                                                                                                {
132
                                              if(last)
                                                                         136
                                                                                                                        if(last)
133
                                                                         137
                                               {
                                                                         138
134
                                                       sum = sum +
                                                                                                                                 sum += day;
     day;
135
                                                       last = fals
                                                                         139
                                                                                                                                last = fals
     e;
                                                                              e;
136
                                                       day = 15;
                                                                         140
                                                                                                                                day = 15;
137
                                                                         141
                                              else {sum = sum +
138
                                                                         142
                                                                                                                        else {sum += 30;}
     30;}
139
                                      }
                                                                         143
                                                                                                               }
                                      else {return -1;}
                                                                         144
                                                                                                                else {return -1;}
```

testDayOfYear(1, 100, 2008);

testDayOfYear(1, 1, 100);

218219

220 221