## **Diffchecker**

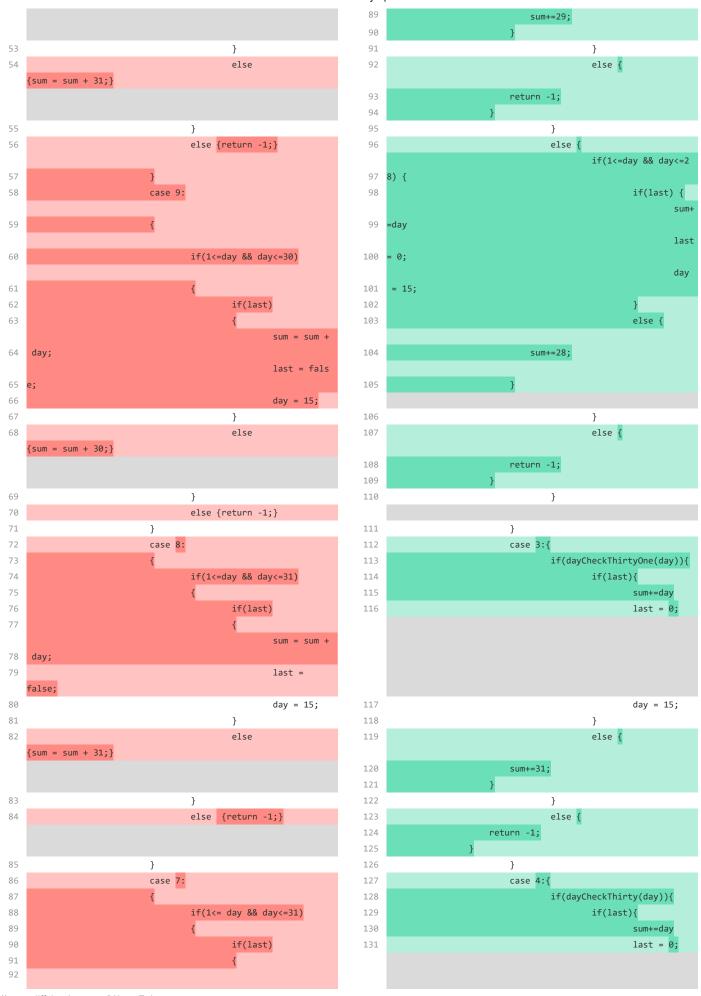
- 175 Removals + 214 Additions

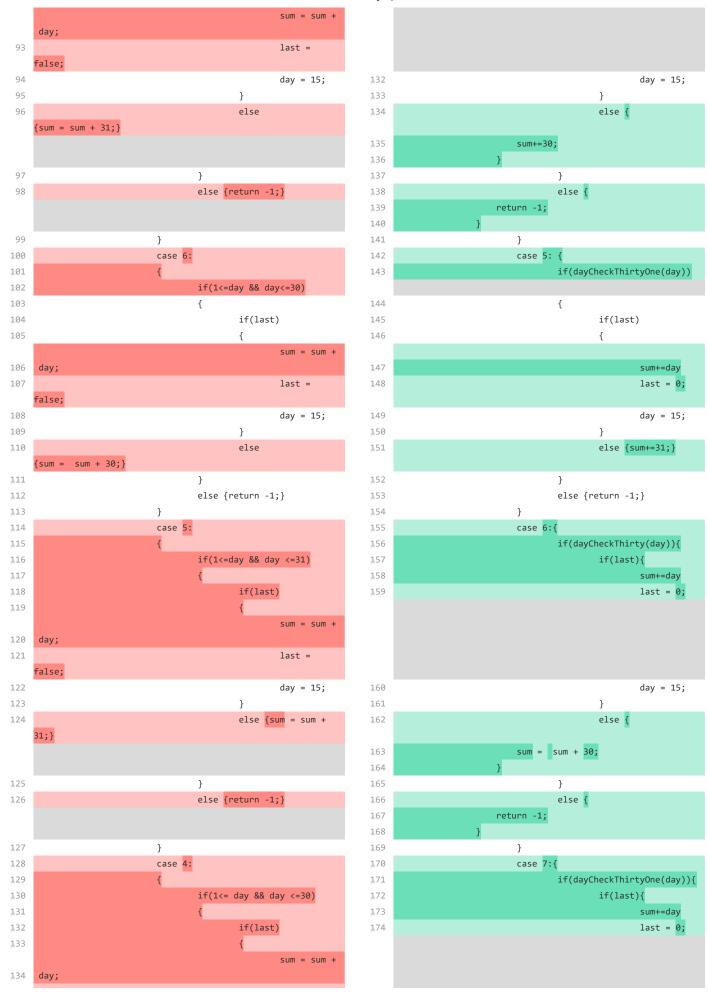
## 11 2

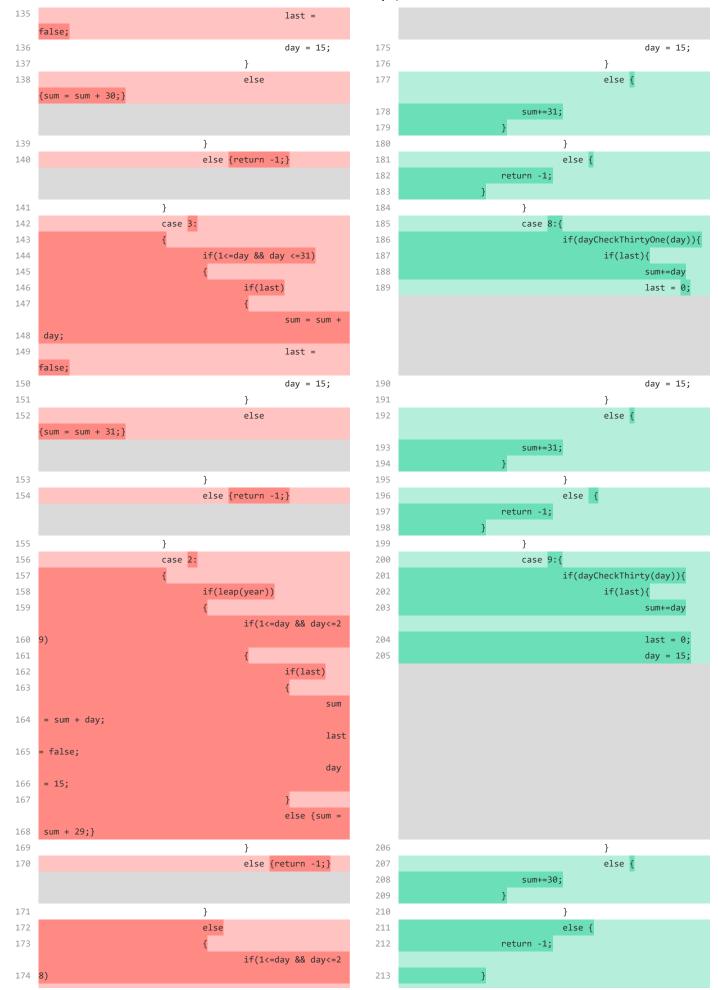
```
1 #include <stdio.h>
  typedef enum {false, true} bool;
5
  bool leap(int year)
6
  {
          if(year%400 == 0){return true;}
```

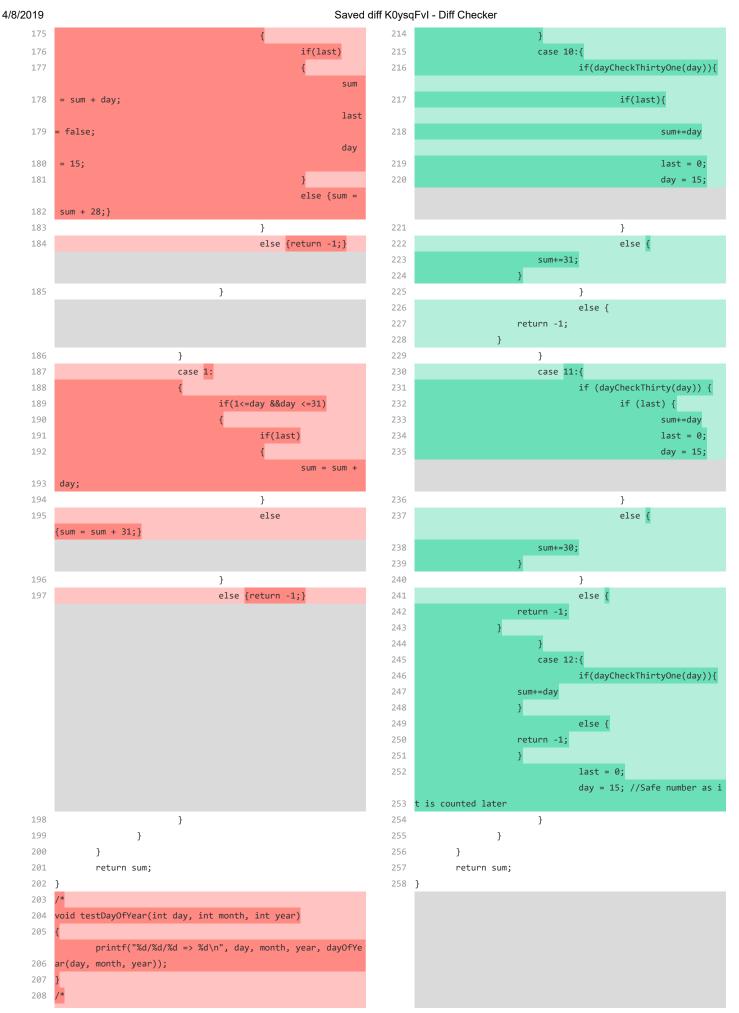
```
1 #include <stdio.h>
    typedef int bool;
    #define true 1
   #define false 0
    const int num = 200
    bool isLeapYear(int year){
 8
 9
           if(year%(num*2) == 0) {
10
            return 1;
11
12
            else if(year%(num/2) == 0){
13
            return 0;
14
15
            else if(year%(num*0.02) == 0){
16
            return 1;
17
18
            else {
19
            return 0;
20
21
22
    bool dayCheckThirtyOne(int d){
23
        if (1<=day && day<=31) {
25
            return 1
26
27
        else {
28
            return 0
29
30
31
32
    bool dayCheckThirty(int d){
        if (1<=day && day<=30) {
33
34
            return 1
35
36
        else {
37
            return 0
38
39
40
41
    bool dayCheckMonth(int m){
        if (1<=month && month<=12) {</pre>
42
43
            return 1
44
45
        else {
46
            return 0
47
48
50
    void test(int day, int month, int year)
51
52
```

```
printf("\n", day, month, year, dayinYear(day, month,
                                                                               year));
            else if(year%100 == 0){return false;}
 8
 9
            else if(year%4 == 0){return true;}
            else {return false;}
10
11
                                                                           53
12
                                                                           54
13
    int dayOfYear(int day, int month, int year)
                                                                           55
                                                                           56
                                                                               int dayinYear(int day, int month, int year){
14
15
            int sum = 0;
                                                                           57
                                                                                       int sum = 0;
                                                                                       bool last = 1;
            bool last = true;
                                                                           58
            if (year < 1753) {return -1;}
                                                                           59
                                                                                       if (year < 1753) {
17
            else if (!(1<=month && month<=12)) {return -1;}
                                                                           60
                                                                                       return -1;
18
19
            else
                                                                           61
                                                                                       else if (!dayCheckMonth(month)) {
20
                                                                           62
21
                     switch(month)
                                                                           63
                                                                                       return -1;
22
                                                                           64
23
                             case 12:
                                                                           65
                                                                                       else{
24
                                                                                                switch(month){
                                      if(1 \le day \& day \le 31) \{ sum = day = 31 \}
25
     sum + day;}
                                                                           67
                                                                                            case 1:{
                                                                                                                 if(dayCheckThirtyOne(day)) {
26
                                      else {return -1;}
                                                                           68
27
                                      last = false;
                                                                           69
                                                                                                                          if(last) {
                                      day = 15; //Safe number as i
28
      is counted later
                                                                           70
                                                                                                                                  sum+=day
29
30
                             case 11:
31
32
                                      if(1<= day && day <=30)
33
                                               if(last)
34
35
                                                       sum = sum +
36
     day;
                                                       last = fals
37
38
                                                       day = 15;
39
                                              }
                                                                           71
                                                                                                                          }
40
                                               else
                                                                           72
                                                                                                                          else {
    \{sum = sum + 30;\}
                                                                                                         sum+=31;
                                                                           73
                                                                           74
41
                                                                           75
                                                                                                                 }
                                      }
42
                                      else {return -1;}
                                                                                                                 else {
                                                                           76
                                                                           77
                                                                                                    return -1;
                                                                           78
                                                                           79
43
                             }
                                                                                                        }
                                                                                                        case 2: {
44
                             case 10:
                                                                           80
                                                                                                                 if(isLeapYear(year)) {
45
                                                                           81
                                                                                                                          if(1<=day && day<=2
                                      if(1<=day && day<=31)
                                                                           82
                                                                               9){
46
47
                                                                           83
                                                                                                                                  if(last){
                                                                                                                                           sum+
48
                                               if(last)
                                                                               =day
                                                                                                                                           last
                                                                               = 0;
49
                                                       sum = sum +
                                                                                                                                           day
50
     day;
                                                                           86
                                                                                = 15;
                                                       last = fals
51
                                                                           87
52
                                                       day = 15;
                                                                           88
                                                                                                                                  else {
```









```
209
    int main (void)
210
211
            testDayOfYear(1, 1, 2008);
212
            testDayOfYear(29, 2, 2008);
213
            testDayOfYear(29, 2, 2009);
            testDayOfYear(26, 9, 2008);
214
            testDayOfYear(31, 12, 2008);
215
            testDayOfYear(31, 12, 2009);
216
217
            testDayOfYear(100, 1, 2009);
218
            testDayOfYear(1, 100, 2008);
219
            testDayOfYear(1, 1, 100);
220
221
```