



## Maximum path sum II

### Problem 67

By starting at the top of the triangle below and moving to adjacent numbers on the row below, the maximum total from top to bottom is 23.

```
      3
     7 4
    2 4 6
   8 5 9 3
```

That is,  $3 + 7 + 4 + 9 = 23$ .

Find the maximum total from top to bottom in `triangle.txt` (right click and 'Save Link/Target As...'), a 15K text file containing a triangle with one-hundred rows.

**NOTE:** This is a much more difficult version of Problem 18. It is not possible to try every route to solve this problem, as there are  $2^{99}$  altogether! If you could check one trillion ( $10^{12}$ ) routes every second it would take over twenty billion years to check them all. There is an efficient algorithm to solve it. ;o)