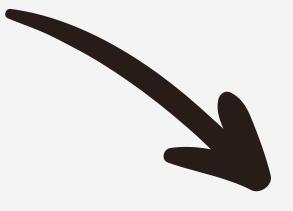
1st Team Project

Computer Systems

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- Open the code
- Compile the code
- Run the executable
- Compare the result of original source code

Open the code



- 1 Use recursion instead of loops
- ② No explicit *int i* declaration
- 3 No explicit return type
- 4 Use 1e4 to represent 10,000

Compile the code -

Warning occurred because we did not include the <stdio.h>

Run the executable

```
$ ./count2
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250
```

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,9885,9886,9887,9888,9889,9890,9891,9892,9893,9894,9895,9896,9897,9898,9899,9900,9901,9902,9903,990
4,9905,9906,9907,9908,9909,9910,9911,9912,9913,9914,9915,9916,9917,9918,9919,9920,9921,9922,9923,99
24,9925,9926,9927,9928,9929,9930,9931,9932,9933,9934,9935,9936,9937,9938,9939,9940,9941,9942,9943,9
944,9945,9946,9947,9948,9949,9950,9951,9952,9953,9954,9955,9956,9957,9958,9959,9960,9961,9962,9963,
9964,9965,9966,9967,9968,9969,9970,9971,9972,9973,9974,9975,9976,9977,9978,9979,9980,9981,9982,9983,9984,9985,9986,9987,9988,9999,

Successfully compiled and run

Compare the results

```
$ ./count1 > c1 && ./count2 > c2
```

-> Redirected outputs into c1, c2

```
$ diff c1 c2
```

- -> diff is a command that compares two files and shows their differences
- -> There's no differences

Total code size:

\$ wc -c count2.c 42 count2.c

Thank you