

Marcin Sawczuk 303163, zajęcia 8

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marcin@Inspiron-5570: ~/Pulpit/PMiM/Lab 9
Plik Edycja Widok Wyszukiwanie Terminal Pomoc
marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ gcc -o lab_8a lab_8a.c lab_8a_asm.s
marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ ./lab_8a
FactC(1) = 1
FactA(1) = 1
FactC(2) = 2
FactA(2) = 2
FactC(3) = 6
FactA(3) = 6
FactC(4) = 24
FactA(4) = 24
FactC(5) = 120
FactA(5) = 120
FactC(6) = 720
FactA(6) = 720
FactC(7) = 5040
FactA(7) = 5040
FactC(8) = 40320
FactA(8) = 40320
FactC(9) = 362880
FactA(9) = 362880
FactC(10) = 3628800
FactA(10) = 3628800
FactC(11) = 39916800
FactA(11) = 39916800
FactC(12) = 479001600
FactA(12) = 479001600
FactC(13) = 6227020800
FactA(13) = 6227020800
FactC(14) = 87178291200
FactA(14) = 87178291200
FactC(15) = 1307674368000
FactA(15) = 1307674368000
FactC(16) = 20922789888000
FactA(16) = 20922789888000
FactC(17) = 355687428096000
FactA(17) = 355687428096000
FactC(18) = 6402373705728000
FactA(18) = 6402373705728000
FactC(19) = 121645100408832000
FactA(19) = 121645100408832000
FactC(20) = 2432902008176640000
FactA(20) = 2432902008176640000
FactC(21) = 47497908163840000000
FactA(21) = 47497908163840000000
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marcin@Inspiron-5570: ~/Pulpit/PMiM/Lab 9
Plik Edycja Widok Wyszukiwanie Terminal Pomoc
marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ gcc -o lab_8b lab_8b.c lab_8b_asm.s
marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ ./lab_8b
FibC( 0 ) = 0
FibA( 0 ) = 0
Nesting Level = 1
FibC( 1 ) = 1
FibA( 1 ) = 1
Nesting Level = 1
FibC( 2 ) = 1
FibA( 2 ) = 1
Nesting Level = 3
FibC( 3 ) = 2
FibA( 3 ) = 2
Nesting Level = 5
FibC( 4 ) = 3
FibA( 4 ) = 3
Nesting Level = 9
FibC( 5 ) = 5
FibA( 5 ) = 5
Nesting Level = 15
FibC( 6 ) = 8
FibA( 6 ) = 8
Nesting Level = 25
FibC( 7 ) = 13
FibA( 7 ) = 13
Nesting Level = 41
FibC( 8 ) = 21
FibA( 8 ) = 21
Nesting Level = 67
FibC( 9 ) = 34
FibA( 9 ) = 34
Nesting Level = 109
FibC( 10 ) = 55
FibA( 10 ) = 55
Nesting Level = 177
FibC( 11 ) = 89
FibA( 11 ) = 89
Nesting Level = 287
FibC( 12 ) = 144
FibA( 12 ) = 144
Nesting Level = 465
FibC( 13 ) = 233
FibA( 13 ) = 233
```

1.

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marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ gcc -o lab_8a lab_8a.c lab_8a_asm.s
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marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ ./lab_8a
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```
FactC(1) = 1
```

```
FactA(1) = 1
```

FactC(2) = 2
FactA(2) = 2
FactC(3) = 6
FactA(3) = 6
FactC(4) = 24
FactA(4) = 24
FactC(5) = 120
FactA(5) = 120
FactC(6) = 720
FactA(6) = 720
FactC(7) = 5040
FactA(7) = 5040
FactC(8) = 40320
FactA(8) = 40320
FactC(9) = 362880
FactA(9) = 362880
FactC(10) = 3628800
FactA(10) = 3628800
FactC(11) = 39916800
FactA(11) = 39916800
FactC(12) = 479001600
FactA(12) = 479001600
FactC(13) = 6227020800
FactA(13) = 6227020800
FactC(14) = 87178291200
FactA(14) = 87178291200
FactC(15) = 1307674368000
FactA(15) = 1307674368000
FactC(16) = 20922789888000
FactA(16) = 20922789888000
FactC(17) = 355687428096000
FactA(17) = 355687428096000
FactC(18) = 6402373705728000
FactA(18) = 6402373705728000
FactC(19) = 121645100408832000
FactA(19) = 121645100408832000
FactC(20) = 2432902008176640000
FactA(20) = 2432902008176640000
FactC(21) = -4249290049419214848
FactA(21) = -4249290049419214848
FactC(22) = -1250660718674968576
FactA(22) = -1250660718674968576
FactC(23) = 8128291617894825984
FactA(23) = 8128291617894825984
FactC(24) = -7835185981329244160
FactA(24) = -7835185981329244160

FactC(25) = 7034535277573963776
FactA(25) = 7034535277573963776
FactC(26) = -1569523520172457984
FactA(26) = -1569523520172457984
FactC(27) = -5483646897237262336
FactA(27) = -5483646897237262336
FactC(28) = -5968160532966932480
FactA(28) = -5968160532966932480
FactC(29) = -7055958792655077376
FactA(29) = -7055958792655077376
FactC(30) = -8764578968847253504
FactA(30) = -8764578968847253504

2.

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marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ gcc -o lab_8b lab_8b.c lab_8b_asm.s  
marcin@Inspiron-5570:~/Pulpit/PMiM/Lab 9$ ./lab_8b
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```
FibC( 0 ) = 0  
FibA( 0 ) = 0  
Nesting level = 1  
FibC( 1 ) = 1  
FibA( 1 ) = 1  
Nesting level = 1  
FibC( 2 ) = 1  
FibA( 2 ) = 1  
Nesting level = 3  
FibC( 3 ) = 2  
FibA( 3 ) = 2  
Nesting level = 5  
FibC( 4 ) = 3  
FibA( 4 ) = 3  
Nesting level = 9  
FibC( 5 ) = 5  
FibA( 5 ) = 5  
Nesting level = 15  
FibC( 6 ) = 8  
FibA( 6 ) = 8  
Nesting level = 25  
FibC( 7 ) = 13  
FibA( 7 ) = 13  
Nesting level = 41  
FibC( 8 ) = 21  
FibA( 8 ) = 21  
Nesting level = 67
```

FibC(9) = 34
FibA(9) = 34
Nesting level = 109
FibC(10) = 55
FibA(10) = 55
Nesting level = 177
FibC(11) = 89
FibA(11) = 89
Nesting level = 287
FibC(12) = 144
FibA(12) = 144
Nesting level = 465
FibC(13) = 233
FibA(13) = 233
Nesting level = 753
FibC(14) = 377
FibA(14) = 377
Nesting level = 1219
FibC(15) = 610
FibA(15) = 610
Nesting level = 1973
FibC(16) = 987
FibA(16) = 987
Nesting level = 3193
FibC(17) = 1597
FibA(17) = 1597
Nesting level = 5167
FibC(18) = 2584
FibA(18) = 2584
Nesting level = 8361
FibC(19) = 4181
FibA(19) = 4181
Nesting level = 13529
FibC(20) = 6765
FibA(20) = 6765
Nesting level = 21891
FibC(21) = 10946
FibA(21) = 10946
Nesting level = 35421
FibC(22) = 17711
FibA(22) = 17711
Nesting level = 57313
FibC(23) = 28657
FibA(23) = 28657
Nesting level = 92735
FibC(24) = 46368

FibA(24) = 46368
Nesting level = 150049
FibC(25) = 75025
FibA(25) = 75025
Nesting level = 242785
FibC(26) = 121393
FibA(26) = 121393
Nesting level = 392835
FibC(27) = 196418
FibA(27) = 196418
Nesting level = 635621
FibC(28) = 317811
FibA(28) = 317811
Nesting level = 1028457
FibC(29) = 514229
FibA(29) = 514229
Nesting level = 1664079
FibC(30) = 832040
FibA(30) = 832040
Nesting level = 2692537
FibC(31) = 1346269
FibA(31) = 1346269
Nesting level = 4356617
FibC(32) = 2178309
FibA(32) = 2178309
Nesting level = 7049155
FibC(33) = 3524578
FibA(33) = 3524578
Nesting level = 11405773
FibC(34) = 5702887
FibA(34) = 5702887
Nesting level = 18454929
FibC(35) = 9227465
FibA(35) = 9227465
Nesting level = 29860703
FibC(36) = 14930352
FibA(36) = 14930352
Nesting level = 48315633
FibC(37) = 24157817
FibA(37) = 24157817
Nesting level = 78176337
FibC(38) = 39088169
FibA(38) = 39088169
Nesting level = 126491971
FibC(39) = 63245986
FibA(39) = 63245986

Nesting level = 204668309
FibC(40) = 102334155
FibA(40) = 102334155
Nesting level = 331160281
FibC(41) = 165580141
FibA(41) = 165580141
Nesting level = 535828591
FibC(42) = 267914296
FibA(42) = 267914296
Nesting level = 866988873
FibC(43) = 433494437
FibA(43) = 433494437
Nesting level = 1402817465
FibC(44) = 701408733
FibA(44) = 701408733
Nesting level = 2269806339
FibC(45) = 1134903170
FibA(45) = 1134903170
Nesting level = 3672623805
FibC(46) = 1836311903
FibA(46) = 1836311903
Nesting level = 5942430145
FibC(47) = 2971215073
FibA(47) = 2971215073
Nesting level = 9615053951
FibC(48) = 4807526976
FibA(48) = 512559680
Nesting level = 15557484097
FibC(49) = 7778742049
FibA(49) = 3483774753
Nesting level = 25172538049
FibC(50) = 12586269025
FibA(50) = 3996334433
Nesting level = 40730022147