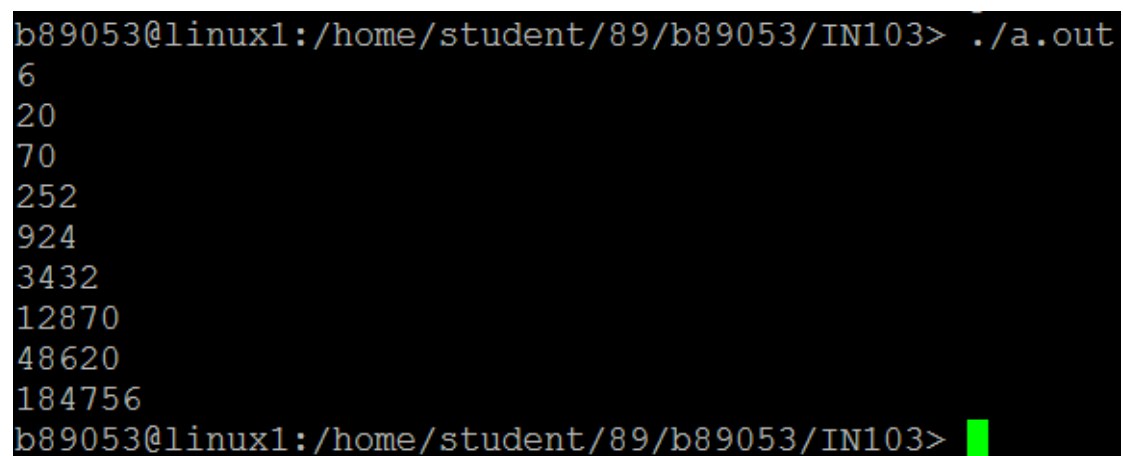# Computer Programming (I)

Homework 4

Problem Statement

Please write a function, foo, that takes an even integer $2 \leq n \leq 20$ and returns the number of size-$(n/2)$ subsets of $\{1, 2, \dots, n\}$. Your main function should be exactly as follows:

```
int main()
{
    cout << foo( 4 ) << '\n'; // 6
    cout << foo( 6 ) << '\n'; // 20
    cout << foo( 8 ) << '\n'; // 70
    cout << foo( 10 ) << '\n'; // 252
    cout << foo( 12 ) << '\n'; // 924
    cout << foo( 14 ) << '\n'; // 3432
    cout << foo( 16 ) << '\n'; // 12870
    cout << foo( 18 ) << '\n'; // 48620
    cout << foo( 20 ) << '\n'; // 184756
}
```

The correct outputs are shown in the comments of the main function above.

My Screenshot