Mohamad Elchami November 14th, 2017

Lab #7

Question One, Part B:

Short: Fails at 8! Because the result of 8! is outside the range of the short data type.

Unsigned Short: Fails at 9! as the result of 9! is outside the range of the unsigned short data type

Integer: Fails at 13! as the result of 13! is outside the range of the integer data type.

Unsigned Integer: Fails at 13! as the result of 13! is outside the range of the unsigned integer data type.

Long: Fails at 50! as the result of 50! is outside the range of the Long data type.

Unsigned Long: Fails at 70! as the result of 70! is outside the range of the unsigned long data type.

Long Long: Fails at 25! as the result of 25! is outside the range of the long data type.

Unsigned Long Long: Fails at 25! as the result of 25! is outside the range of the unsigned Long Long data type.

Long double: Fails at 3249! as the result of 3249! Is outside the range of the long double data type.

Part C:

As unsigned long long fails at 25! the data type Long Double does not fail till 3249!, therefore long double will give us the exact factorial number, which is 1.55112e+25.