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AppSec Assignment 1
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The file format should be c++ files with a .cpp extension to be compiled on g++ compiler. I used version 4.2 when building and testing.

The sandbox does not support the * operator for multiplication, instead an alternative was given in the source code as an example. The operator was disabled in order to prevent any pointers from being created. The memory keywords new, this, and delete are also not supported, incase there was a circumvention of some sort. The purpose of this is to make this sandbox memory safe.

File operations were disabled as well, there is no need to be able to read or write to a file. You can compute your problems without the use of files.

Any computational problem should be able to be passed into the sandbox and executed correctly, providing that the code does not include any of the blacklisted keywords.

I believe my sandbox is Turing-Complete because you can run any arbitrary code that you would run normally, except for the memory and multiplication. You can run code to still carry out multiplication so it isn't a huge loss.