1. (4 marks) Discuss the four steps of compiling using gcc and give the
corresponding gcc options. (You need to specify what the four steps do.)
preprocessing - text substitution
compilation - turn c code into asembly language
assembly - turn human code to machine code
linking - combine all the files together

2. (3 marks) Discuss the major differences between Java and C.
Java does not use pointers
Java uses garbage collection to free memory
Java runs on a virtual machine enabling the same byte code to run on different operating systems.
Java forces the object oriented model for software
C uses standalone functions rather than methods in classes