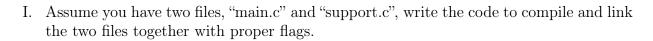
Exam 1



- II. Answer the following questions regarding Physical Address Space and Virtual Address Space
 - A. Define Physical Address Space and Virtual Address Space

B. What are the benefits of using Virtual Address Space over Physical Address Space in a process?

- III. The following question relates to the program translation process in C
 - A. Put the following in order Compilation, Preprocessing, Linking, Assembly

B. Define each step of progam translation

IV. The following question relates to the memory segments in a program.

A. Draw the diagram of the memory segment in C

B. For each of the memory segments, define what is stored in them.

- i. Heap _____
- ii. Data _____
- iii. Text _____
- iv. Stack _____

V. Answer the following questions regarind structs

A. Create a struct that meets the following specifications.

- Must be named store
- Must have an id of type long
- $\bullet\,$ Must have a name of type array of size 20

B. What is the largest length string that can be held in name?

C. Create an instance of store with any values you like.