# C Programming memory test

Inside your C file named "main.c" is a function that you want to be accessible only from this file. Which is the correct keyword to make this happen?

1. static
2. alone
3. extern

You want to open a file for writing only and overwrite the file if it exists. Which line of code will do this?

1. fopen("filename", "w+");
2. fopen("filename", "w"); (correct answer)
3. fopen("filename", "r");

You want to store a 200 MegaByte file into memory would you use the heap or the stack?

1. Use the heap by calling malloc (correct answer)
2. Use the stack, store it in an array

Why should you always call the "free" function for data allocated with the "malloc" function?

1. To avoid a memory leak (correct answer)
2. To prevent the program from crashing

Is it safe to access data that has been released using the "free" function?

1. Yes
2. No

You have an "int" pointer named "ptr". You want to get the value at the memory address this pointer is pointing at. What will work?

***(Correct answer)***

*int a = 50;  
int\* ptr = &a;  
int val = \*ptr;*

OR

int a = 50;  
int\* ptr = &a;  
int val = ptr;

When is the preprocessor run?

*At run time*

*At Compile time (correct answer)*