CST 334: Operating Systems

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# OSTEP Chapter 14

**Instructions.** Read OSTEP chapter 14 and answer the following questions by downloading and editing [chap14.txt](https://drive.google.com/file/d/1RV2_0JHkN7Q_o0rs1ha9DJH5As2umOv7/view?usp=sharing).

1. What kind of memory allocation occurs on the blue line of code below?

int my\_fun() {

char \*s = (char \*) malloc(10);

…

}

1. stack allocation
2. heap allocation
3. both stack and heap allocation
4. neither stack nor heap allocation
5. Which is the correct way to allocate memory to make a copy of a string foo? (This code shows only the memory allocation, not the copying.)
6. char \*s\_copy = (char \*) malloc(foo);
7. char \*s\_copy = (char \*) malloc(strlen(foo));
8. char \*s\_copy = (char \*) malloc(strlen(foo) + 1);
9. The line of code below can be fixed by changing one thing? What is it?

int \*xp = (int \*)malloc(1);

1. The argument passed to malloc()
2. The (int \*) in front of malloc
3. The int \* at the beginning of the line
4. On mlc104, what is the value returned by sizeof(int)?

4

1. On mlc104, what is the value returned by sizeof(float)?

4

**Submission**: Submit your edited chap14.txt on iLearn.

**Grading**: Each problem is worth 10 points.