CSC 215 Exam 2 Practice Questions

**Question 1:** Implement the strcpy function

**Question 2:** How many bytes are allocated? Is there anything wrong with this allocation? If so, how would you fix it?

 int\* x = (int\*) malloc(12);

**Question 3:** True or false. Calling free on the same address twice is ok.

**Question 4**: What should the program below print?

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

void myfunc(char\*\* param){

 ++param;

}

int main(){

 char\* string = (char\*)malloc(64);

 strcpy(string, "hello\_World");

 myfunc(&string);

 myfunc(&string);

 printf("%s\n", string);

 return 0;

}

**Question 5:**

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|  For the code below which lines should be reported as errors by a compiler?int main(int argc, char\*\* argv){ const char\* foo = "wow"; // line 1 foo = "top"; // line 2 foo[0] = 1; // line 3 return 0;} |

a) Line 2

b) Line 3

c) Both lines 2 and 3

d) none of the lines

**Question 6:**

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|  When running the program below, the malloc statement will always be executed?#include <stdlib.h>#include <stdio.h>int\* ptrToData;int main(){ if (!ptrToData){ ptrToData = (int\*)malloc(sizeof(int) \* 10); printf("%p\n", ptrToData); } free(ptrToData); return 0;} |

a) True, the malloc statement will always be executed

b) False, depending on how ptrToData is initialized in the machine the malloc statement might not get run.