CSC 209 Review 8 Solution

September 10, 2020

```
int *my_malloc (int n) {
    int *res;

res = malloc(n * sizeof(int));
    if (res == NULL) {
        perror("Allocation failed.");
    }

return res;
}
```

Please see question_1.c for details.

```
2_1
       char *duplicate(char *str) {
           char *res;
3
           res = malloc(strlen(str) + 1);
           if (res == NULL) {
5
               return res;
6
8
           strcpy(res, str);
9
10
           return res;
11
12
```

Please see question_2.c for details.

```
int *create_array(int n, int initial_value) {
   int *p, *res;

res = malloc(n * sizeof(int));

if (res == NULL) {
   return res;
}
```

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```
for (p = res; p < res + n; p++) {
         *p = initial_value;
}

return res;
}</pre>
```

Please see question_3.c for details.

Please see question_4.c for details.