

CSC 209 Review 8 Solution

September 10, 2020

```
1  int *my_malloc (int n) {  
2      int *res;  
3  
4      res = malloc(n * sizeof(int));  
5      if (res == NULL) {  
6          perror("Allocation failed.");  
7      }  
8  
9      return res;  
10 }
```

Please see question_1.c for details.

```
2  char *duplicate(char *str) {  
3      char *res;  
4  
5      res = malloc(strlen(str) + 1);  
6      if (res == NULL) {  
7          return res;  
8      }  
9  
10     strcpy(res, str);  
11  
12     return res;  
13 }
```

Please see question_2.c for details.

```
3  int *create_array(int n, int initial_value) {  
4      int *p, *res;  
5  
6      res = malloc(n * sizeof(int));  
7  
8      if (res == NULL) {  
9          return res;  
10     }  
11  
12     for (p = res; p < res + n; p++)  
13         *p = initial_value;  
14     return res;  
15 }
```

```
10     for (p = res; p < res + n; p++) {  
11         *p = initial_value;  
12     }  
13  
14     return res;  
15 }
```