## Quiz 4

Name and student ID

int x[10][10];

Let length[i] be the desired length of row i of a two dimensional array. Write a function similar to make2dArray() to create a two dimensional array such that row i has length[i] elements.

```
C quiz4.c > ...
      #include <stdio.h>
 2
      #include <stdlib.h>
      int main(void)
          int length[10];
          int *array[10];
          for (int i = 0; i<10; i++){
              length[i] = i+1;
          for (int i = 0; i < 10; i++)
              array[i] = malloc(sizeof(int) * length[i]);
          return 1;
PROBLEMS
            OUTPUT
                      DEBUG CONSOLE
                                       TERMINAL
                                                  JUPYTER
  2022-2-data-structure git:(main) x gcc -o quiz4 quiz4.c
   2022-2-data-structure git:(main) x
```

## Quiz 5

Name and student ID

Develop a structure to represent each of the following geometric objects: rectangle, \*triangle, and circle.

```
C practice.c C practice2.c
                                  C quiz5.c U X
C quiz5.c > 分 main(void)
      #include <stdio.h>
  3 \sim int main(void)
           typedef struct
              float x;
              float y;
           } point; // 꼭 선언한 애를 뭐로 부를지 정해야함
              point p1, p2, p3, p4;
           } rectangle;
              point p1, p2, p3;
           } triangle;
 21 V
           struct circle
              point center;
              float radius;
```

## Quiz 6

Name and student ID

Implement Remove() and Attach() in slide 21 using polynomial
 representation in slide 22.

```
#include <stdio.h>
#include <stdlib.h>
       float *Remove(float **, int);
float *attach(float **, float **);
     > int main(void)
     v float *Remove(float **pol, int leadexp)
           *pol(0| = leadexp;
int lenofpol = sizeof(*pol) / sizeof(int *);
*pol(lenofpol - leadexp) = 0;
float leadexp1 = *pol1[0];
float leadexp2 = *pol2[0];
            int sizeofnewpol = sizeof(leadexp1) / sizeof(float *);
           float *resultpol; // empty array for new polynomial resultpol = malloc(sizeofnewpol); // resultpol의 산인하지 함. 이제 여기다 체위넣으면 된다
            int maxleadexp;
            maxleadexp = leadexp1;
                 maxleadexp = leadexp2;
            for (int i = 0; i < maxleadexp + 1; i++)
             return resultpol;
PROBLEMS (20) OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
quiz6.c:17:8: error: conflicting types for 'remove'
float *remove(float ***pol, int leadexp)
/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk/usr/include/stdio.h:174:6: note: previous declaration is here int remove(const char *);
2 errors generated.

- 2022-2-data-structure git:(main) x gcc -o quiz6 quiz6.c
quiz6.c:221: warning: non-void function does not return a value [-Mreturn-type]
```