forNextDay 7

2d Array code

```c
1    #include <stdio.h>
2    #include <stdlib.h>
3    int main()
4    {
5        int i = 0, j = 0;
6        int array [5] [5] = {
7        {1,2,3,4,5},
8        {6,7,8,9,10},
9        {11, 12, 13, 14, 15},
10       {16, 17, 18, 19, 20},
11       {21, 22, 23, 24, 25}
12       };
13
14       printf("Before changing the array\n");
15       while (i < 5)
16       {
17           while(j < 5){
18               printf("%d ", array[i][j]);
19               j++;
20           }
21           j = 0;
22           printf("\n");
23           i++;
24       }
25       i = 0;
26
27       while (i < 5)
28       {
29           while (j < 5)
30           {
31               array[i][j] = 0;
32               j++;
33           }
34           j = 0;
35           i++;
36       }
37       i = 0;
38       printf("After changing\n");
39       while (i < 5)
40       {
41           while(j < 5){
42               printf("%d ", array[i][j]);
43               j++;
44           }
45           j = 0;
46           printf("\n");
47           i++;
48       }
49       return EXIT_SUCCESS;
50   }
```

2d Array Terminal Activity (output)

```
Before changing the array
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
After changing
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
0 0 0 0 0
```

Makefile

```
mmoustaf@gc112m38:FND7                                                    —    □    ✕
areDistinct: areDistinct.o main.o
        gcc -o areDistinct areDistinct.o main.o
areDistinct.o: areDistinct.c
        gcc -c areDistinct.c
main.o: main.c
        gcc -c main.c
test0: areDistinct
        ./areDistinct inputs/input0 > outputs/output0
        diff expected/expected0 outputs/output0
clean:
        /bin/rm -f *.o areDistinct outputs/
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"Makefile" [readonly] 11L, 307C                          11,2-9              All
```

The result of Make

```
[mmoustaf@gc112m38 FND7]$ [mmoustaf@gc112m38 FND7]$ make
gcc -c areDistinct.c
gcc -c main.c
gcc -o areDistinct areDistinct.o main.o
[mmoustaf@gc112m38 FND7]$
```