

# 9-4.c

## ChatGPT

The image shows a Visual Studio Code editor window with a C program named '9-4.c' open. The program is a simple C application that prints an array of numbers and finds the maximum value and its address. The code is as follows:

```
1 #define _CRT_SECURE_NO_WARNINGS
2 #include <stdio.h>
3
4 void print_array(int numbers[], int size);
5 void find_max_ptr(int numbers[], int size, int** maxp);
6
7 int main() {
8     int numbers[] = { 32, 42, 82, 12, 22, 52, 62, 92, 72 };
9     int size = sizeof(numbers) / sizeof(numbers[0]);
10
11     // Print the array
12     printf("배열에 저장된 데이터: ");
13     print_array(numbers, size);
14
15     // Find the maximum value and its address
16     int* maxp;
17     find_max_ptr(numbers, size, &maxp);
18
19     // Print the maximum value
20     printf("배열내 가장 큰 값은 %d\n", *maxp);
21
22     return 0;
23 }
24
25 void print_array(int numbers[], int size) {
26     for (int i = 0; i < size; i++) {
27         printf("%d ", numbers[i]);
28     }
29     printf("\n");
30 }
31
32 void find_max_ptr(int numbers[], int size, int** maxp) {
33     *maxp = &numbers[0]; // Assume the first element is the maximum
34
35     for (int i = 1; i < size; i++) {
36         // If the current element is greater than the value at maxp, update maxp
37         if (numbers[i] > **maxp) {
38             *maxp = &numbers[i];
39         }
40     }
41 }
```

The program is compiled and run. The output is as follows:

```
출력
출력 보기 선택(S): 빌드
오전 1:50에 빌드를 시작함...
1>----- 빌드 시작: 프로젝트: ChatGPT-과제9, 구성: Debug x64 -----
1>9-4.c
1>ChatGPT-과제9.vcxproj -> C:\Users\Wchany\OneDrive - Ajou University\수학과\2023-2-2\컴퓨터프로그래밍및실습 (F024-1)\Visual Studio\9주차 실습\ChatGPT-과제9\src\Debug\ChatGPT-과제9.exe
===== 빌드: 1개 성공, 0개 실패, 0개 최신 상태, 0개 건너뛴 =====
===== 빌드(가) 오전 1:50에 완료되었으며, 00.963 초(가) 걸림 =====
```

The output shows that the program was compiled successfully and the maximum value found in the array is 92.

# 9-4.c

## ChatGPT

The image shows a screenshot of the Visual Studio Code editor with a C program and its output.

**Source Code (9-4.c):**

```
1 #define _CRT_SECURE_NO_WARNINGS
2 #include <stdio.h>
3
4 void print_array(int numbers[], int size);
5 void find_max_ptr(int numbers[], int size, int** maxp);
6
7 int main() {
8     int numbers[] = { 32, 42, 82, 12, 22, 52, 62, 92, 72 };
9     int size = sizeof(numbers) / sizeof(numbers[0]);
10
11     // Print the array
12     printf("배열에 저장된 데이터: ");
13     print_array(numbers, size);
14
15     // Find the maximum value and its address
16     int* maxp;
17     find_max_ptr(numbers, size, &maxp);
18
19     // Print the maximum value
20     printf("배열내 가장 큰 값은 %d\n", *maxp);
21
22     return 0;
23 }
24
25 void print_array(int numbers[], int size) {
26     for (int i = 0; i < size; i++) {
27         printf("%d ", numbers[i]);
28     }
29     printf("\n");
30 }
31
32 void find_max_ptr(int numbers[], int size, int** maxp) {
33     *maxp = &numbers[0]; // Assume the first element is the maximum
34
35     for (int i = 1; i < size; i++) {
36         // If the current element is greater than the value at maxp, update maxp
37         if (numbers[i] > **maxp) {
38             *maxp = &numbers[i];
39         }
40     }
41 }
```

**Output (Microsoft Visual Studio 디버그):**

```
배열에 저장된 데이터: 32 42 82 12 22 52 62 92 72
배열내 가장 큰 값은 92
```

**ChatGPT-과제9:**

C:\Users\chany\OneDrive - Ajou University\수학과\2023-2-2\컴퓨터프로그래밍및실습 (F024-1)\Visual Studio\9주차 실습\ChatGPT-과제9\x64\Debug\ChatGPT-과제9.exe(프로세스 768개)이(가) 종료되었습니다(코드: 0개).  
이 창을 닫으려면 아무 키나 누르세요...

**Output Console:**

출력  
출력 보기 선택(S): 빌드

호출 계층 구조 오류 목록 출력 적갈피

준비

소스 제어에 추가 리포지토리 선택

1:53:57 2023-11-25