

realloc

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    int* ptr;
    int n, i;

    printf("Enter number of elements:");
    scanf("%d",&n);
    //ptr = (int*)malloc(n * sizeof(int));
    ptr = (int*)calloc(n , sizeof(int));
    if (ptr == NULL) {
        printf("Memory not allocated.\n");
        exit(0);
    }
    else {
        for (i = 0; i < n; ++i) {
            printf("Enter element-%d: ",i+1);
            scanf("%d",&ptr[i]);
        }

        printf("The elements of the array are: ");
        for (i = 0; i < n; ++i) {
            printf("%d, ", ptr[i]);
        }
    }

    printf("\nEnter number of elements:");
    scanf("%d",&n);
    //ptr = (int*)malloc(n * sizeof(int));
    ptr = (int*)realloc(ptr,n*sizeof(int));
    if (ptr == NULL) {
        printf("Memory not allocated.\n");
        exit(0);
    }
    else {
        for (i = 0; i < n; ++i) {
            printf("Enter element-%d: ",i+1);
            scanf("%d",&ptr[i]);
        }

        printf("The elements of the array are: ");
        for (i = 0; i < n; ++i) {
            printf("%d, ", ptr[i]);
        }
    }
    free(ptr);


    return 0;
}
```

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main.c

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Clear

```
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2 #include <stdlib.h>
3 int main()
4 {
5     int* ptr;
6     int n, i;
7
8     printf("Enter number of elements:");
9     scanf("%d",&n);
10    //ptr = (int*)malloc(n * sizeof(int));
11    ptr = (int*)calloc(n , sizeof(int));
12    if (ptr == NULL) {
13        printf("Memory not allocated.\n");
14        exit(0);
15    }
16    else {
17        for (i = 0; i < n; ++i) {
18            printf("Enter element-%d: ",i+1);
19            scanf("%d",&ptr[i]);
20        }
21
22        printf("The elements of the array are: ");
23        for (i = 0; i < n; ++i) {
24            printf("%d, ", ptr[i]);
25        }
26    }
27
28    printf("\nEnter number of elements:");
29    scanf("%d",&n);
30    //ptr = (int*)malloc(n * sizeof(int));
```

```
/tmp/z1PCQ09P0E.o
Enter number of elements:3
Enter element-1: 5
Enter element-2: 6
Enter element-3: 3
The elements of the array are: 5, 6, 3,
Enter number of elements:2
Enter element-1: 8
Enter element-2: 7
The elements of the array are: 8, 7,
```