

## 과제 09 - 1

```
#include <stdio.h>

int main(void) {
    int num_array[4] = {3,6,2,4};
    int index;

    printf("Array: ");
    for (int i=0; i<sizeof(num_array)/sizeof(int); i++) {
        printf("%d ",*(num_array+i));
    }

    printf("\nGive the index number: ");
    scanf("%d", &index);

    if (index > sizeof(num_array)/sizeof(int)) {
        printf("Out of range");
        return 0;
    }
    printf("%d", *(num_array+index-1));

    return 0;
}
```

```
• → Tasks ./task9-1
Array: 3 6 2 4
Give the index number: 4
4%

• → Tasks ./task9-1
Array: 3 6 2 4
Give the index number: 5
Out of range%
```

## 과제 09 – 2

```
#include <stdio.h>

int main(void) {
    int num_array[5];
    int value;
    int sum = 0;

    printf("Give four numbers: ");
    for (int i=0; i<4; i++) {
        scanf("%d", &value);
        num_array[i] = value;
        sum += value;
    }
    num_array[4] = sum;

    for (int j=0; j<5;j++) {
        printf("%d ", *(num_array + j));
    }

    return 0;
}
```

```
→ Tasks ./task9-2
Give four numbers: 1 2 3 4
1 2 3 4 10 %
→ Tasks ./task9-2
Give four numbers: 4 5 6 2
4 5 6 2 17 %
```

## 과제 09 - 3

```
#include <stdio.h>

void abs(int num) {
    if (num < 0) printf("%d ", num * (-1));
    else printf("%d ", num);
}

int main(void) {
    int num1, num2;

    scanf("%d %d", &num1, &num2);
    abs(num1);
    abs(num2);

    return 0;
}
```

```
● → Tasks ./task9-3
-10 20
10 20
● → Tasks ./task9-3
10 -100
10 100
```

## 과제 09 - 4

```
#include <stdio.h>

void swap(int *array) {
    int tmp;
    tmp = *(array);
    *(array) = *(array+4);
    *(array+4) = tmp;
}

int main(void) {
    int array[5];

    for (int i=0; i<5; i++) {
        scanf("%d", array+i);
    }

    swap(array);

    for (int j=0; j<5; j++) {
        printf("%d ", *(array+j));
    }

    return 0;
}
```

● → **Tasks** ./task9-4

1 2 3 4 5

5 2 3 4 1

● → **Tasks** ./task9-4

1 1 2 2 3

3 1 2 2 1

## 과제 09 – 5

```
#include <stdio.h>

void minmax_scale(double *array) {
    double max = *array;
    double min = *array;

    for (int i=1; i<5; i++) {
        if (*(array+i) > max) max = *(array+i);
        if (*(array+i) < min) min = *(array+i);
    }

    for (int j=0; j<5; j++) {
        *(array+j) = (*(array+j)-min)/(max-min);
    }
}

int main(void) {
    double array[5];
    double num;

    for (int i=0; i<5; i++) {
        scanf("%lf", array+i);
    }

    minmax_scale(array);

    for (int j=0; j<5; j++) {
        printf("%.1lf ", *(array+j));
    }

    return 0;
}
```

```
● → Tasks ./task9-5
1 2 3 4 5
0.0 0.2 0.5 0.8 1.0 %
● → Tasks ./task9-5
0 20 40 60 80
0.0 0.2 0.5 0.8 1.0 %
● → Tasks ./task9-5
0 4 6 9 10
0.0 0.4 0.6 0.9 1.0 %
```