```c
/* pointer1.c */
#include <stdio.h>

int main(void)
{
        int a=2005;
        int* pA=&a;


        printf("pA : %d \n", pA);
        printf("&a : %d \n", &a);


        (*pA)++;      //a++와 같은 의미를 지닌다.


        printf("a    : %d \n", a);
        printf("*pA : %d \n", *pA);

        return 0;
}
```

```c
/* pointer_array2.c */
#include <stdio.h>

int main(void)
{
        int arr[3]={0, 1, 2};
        int *ptr;

        ptr=arr;

        printf("%d, %d, %d \n", ptr[0], ptr[1], ptr[2]);

        return 0;
}
```

```c
/* pointer_op.c */
#include <stdio.h>

int main(void)
{
        int* ptr1=0;
        char* ptr2=0;
        double* ptr3=0;

        printf("%d 번지, %d 번지, %d 번지 \n", ptr1++, ptr2++, ptr3++);

        printf("%d 번지, %d 번지, %d 번지 \n", ptr1, ptr2, ptr3);

        return 0;
}
```

```c
/* ptr_arr.c */
#include <stdio.h>

int main(void)
{
        int a=10, b=20, c=30;
        int* arr[3]={&a, &b, &c};

        printf("%d \n", *arr[0]);
        printf("%d \n", *arr[1]);
        printf("%d \n", *arr[2]);

        return 0;
}
```

```c
/* arr_fct.c*/
#include <stdio.h>

void fct(int *arr2);

int main(void)
{
    int arr1[2]={1, 2};

    fct(arr1);
    printf("%d \n", arr1[0]);

    return 0;
}

void fct(int *arr2)
{
        printf("%d \n", arr2[0]);
        arr2[0]=3;
}
```

```c
/* val_swap.c */
#include <stdio.h>

void swap(int a, int b);

int main(void)
{
        int val1=10;
        int val2=20;

        swap(val1, val2);

        printf("val1 : %d \n", val1);
        printf("val2 : %d \n", val2);

        return 0;
}

void swap(int a, int b)
{
        int temp=a;
        a=b;
        b=temp;

        printf("a : %d \n", a);
        printf("b : %d \n", b);
}
```

```c
/* ref_swap.c */
#include <stdio.h>

void swap(int* a, int* b);

int main(void)
{
        int val1=10;
        int val2=20;

        printf("Before val1 : %d \n", val1);
        printf("Before val2 : %d \n", val2);

        swap(&val1, &val2);

        printf("After val1 : %d \n", val1);
        printf("After val2 : %d \n", val2);

        return 0;
}

void swap(int* a, int* b)
{
        int temp=*a;
        *a=*b;
        *b=temp;
}
```