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C exp8pointerarithmetic.c > main()
```

```
1
2 #include <stdio.h>
3
4 int main() {
5     int x = 100;
6     int *ptr = &x;
7
8     printf("Original address: %p\n", ptr);
9     ptr++;
10    printf("After increment: %p\n", ptr);
11    ptr--;
12    printf("After decrement: %p\n", ptr);
13
14    return 0;
15}
16
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

```
PS C:\Users\abiga\OneDrive\Desktop\Absproj> cd "c:\Users\abiga\OneDrive\Desktop\Absproj\" ; if ($?) { gcc exp8pointerarithmetic.c -o exp8pointerarithmetic } ; if ($?) {
Original address: 0061FF18
After increment: 0061FF1C
After decrement: 0061FF18
PS C:\Users\abiga\OneDrive\Desktop\Absproj>
```

2. Perform pointer arithmetic (increment & decrement) on pointers of different data types. Observe how the memory addresses change and the effects on data access.

```
#include <stdio.h>
int main () {
    int x = 100;
    int *ptr = &x;
    printf ("Original address : %p \n", ptr );
    ptr++;
    printf ("After increment : %p \n", ptr );
    ptr--;
    printf ("After decrement : %p \n", ptr );
    return 0;
```

}