

```
#include <stdio.h>
```

```
int print(int val, long int dp, char *note) {  
    printf("value = %i,\tp offset = %li,\t%s\n", val, dp, note);  
}
```

```
int main() {  
    int a[] = {0,1};  
    int *p = a, *p0 = a, val = *p;  
    print(val, p-p0, "initial");  
    val = *p++;      print(val, p - p0, "*p++");  
    val = *p--;      print(val, p - p0, "*p--");  
    val = *++p;      print(val, p - p0, "*++p");  
    val = *--p;      print(val, p - p0, "*--p");  
    val = ++*p;      print(val, p - p0, "++*p");  
    val = --*p;      print(val, p - p0, "--*p");  
}
```

The program prints the following to the console:

```
value = 0,  p offset = 0,  initial  
value = 0,  p offset = 1,  *p++  
value = 1,  p offset = 0,  *p--  
value = 1,  p offset = 1,  *++p  
value = 0,  p offset = 0,  *--p  
value = 1,  p offset = 0,  ++*p  
value = 0,  p offset = 0,  --*p
```

Note that p is unchanged in the last two lines of the output because the dereferencing operates first.