Pointer

Pointer on Array

0	1	2	3	4	5	6	7	8	9	10	11	12
c	a	t		i	n		s	p	a	c	e	\0

str1 1234

cp

~~1234~~
1239
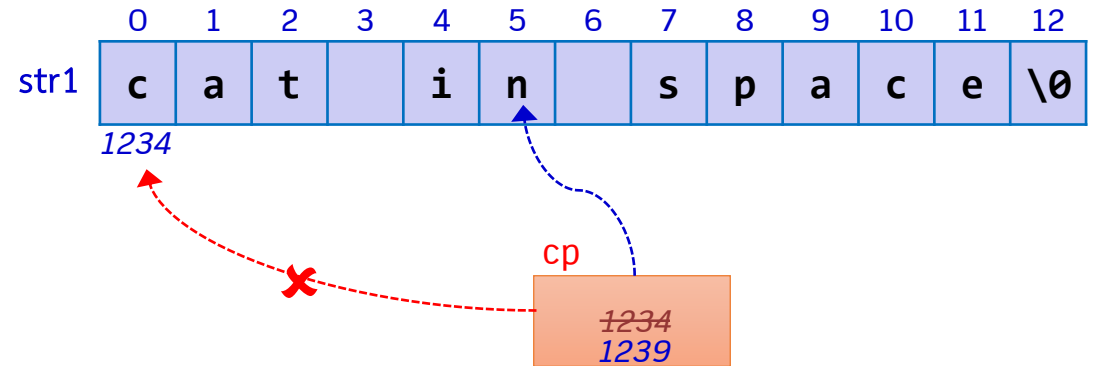
```c
char str1[] = "cat in space";
char *cp;


cp = str1;
//เขียนอีกแบบ cp = &str1[0];


cp = cp + 5;


printf("%p", str1);          // แสดงค่า 1234
printf("%p, %c", cp, *cp);    // แสดงค่า 1239, n
```
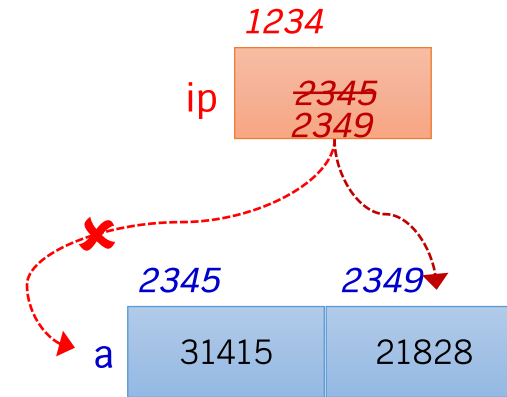
```
int *ip;
int a[] = {31415, 21828};


ip = a;
// เขียนอีกแบบ ip = &a[0];


ip++;


printf(%p", a);              // แสดงค่า 2345
printf("%p, %d", ip, *ip);   // แสดงค่า 2349, 21828
```

Coding

```c
#include <stdio.h>
void main()
{
    int x[5] = {0, 2, 4, 6, 8};
    int *p1, *p2, *p3;
    p1 = &x[0];
    printf("*p1 = %d\n", *p1);
    p2 = x;
    printf("*p2 = %d\n", *p2);
    p3 = &x[3];
    printf("*p3 = %d\n", *p3);
    p1++;
    printf("*p1 = %d\n", *p1);
    p1 += 2;
    printf("*p1 = %d\n", *p1);
}
```