

```

int sum(int &a, int &b)
{
    int c = a + b;  a = 75;
    return c;
}

```

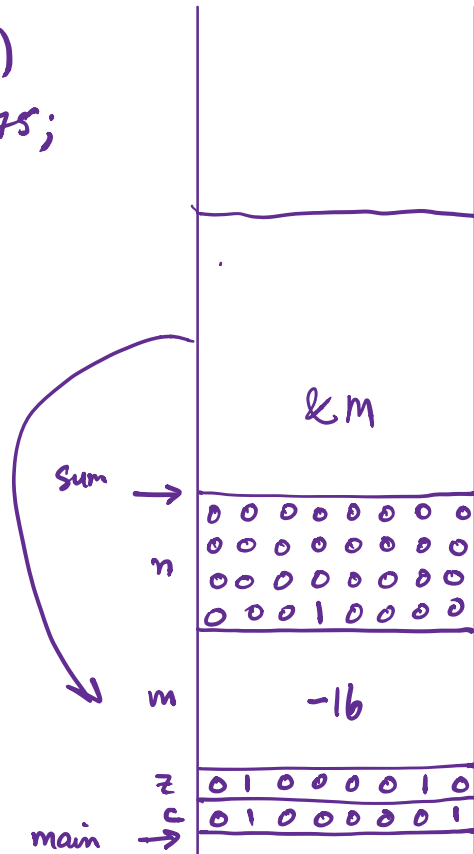
```

int main()
{
    char c = 'A';
    char z = 'B';

    int m = -16;
    int n = 32;

    int r = sum(m, n);
    :
}

```



BITWISE OPERATORS

AND } 2
 OR }
 XOR }
 NOT } 1
 LEFT SHIFT } N
 RIGHT SHIFT }

	AND (&)	OR ()	XOR (^)
0	0	0	0
0	0	0	0
1	0	1	1
1	1	1	0

NOT (~)

0	1
1	0

c: 01000001 'A'
 z: 01000010 'B'

~c 10111110

c & z: 01000000

c | z: 01000011

c ^ z: 00000011

c	01000001	'A'
	←←←←←←←	
c<<1	10000010	~c 10111110
c<<3	00001000	
c>>1	00100000	

c = c + 3;		c = c << 1;		c = ~c;
⇒ c += 3;		c = << 1;		

char c = 'A';

	c	01000001	'A'
		00010000	mask

Michael's memory

10010011	←
00001000	→ mask
10011011	

Freddie memory

10010011	← 0
11111111	→ mask
10000001	
~ 01101111	