Wskaźniki

1

```
int var; // deklaracja zmiennej
int *p; // deklaracja wskaźnika
var; // wartość
&var; // adres gdzie znajduje się wartość
p // wskaźnik na adres pamięci
*p; // wartość, na którą wskazuje wskaźnik,
```

Wskaźniki

1

```c
int nbr = 64;
printf("Value: %d\r\n", nbr);
printf("Adrress: %p\r\n", &nbr);
```

2

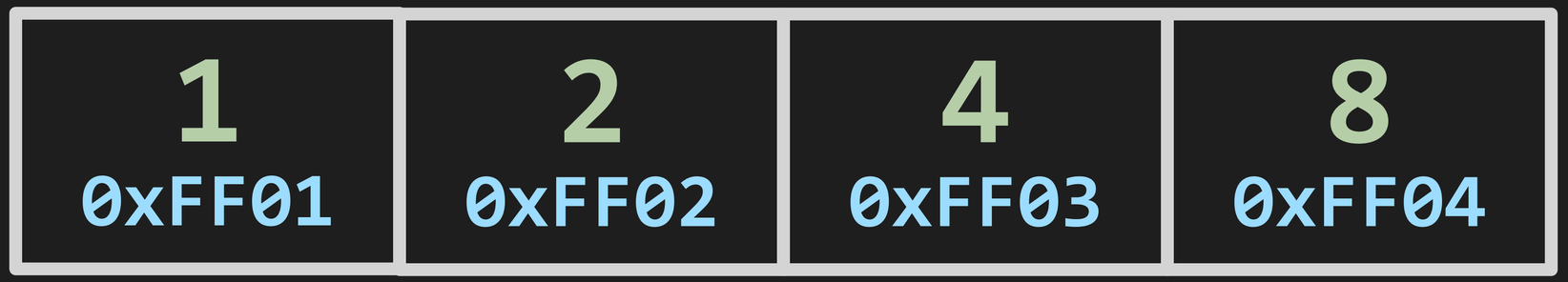
```c
int nbr = 64;
int *p = &nbr;
printf("Value: %d\r\n", *p);
printf("Adrress: %p\r\n", p);
```

Tablice

1

```
char ary[4]; // OK
char ary[]; // ERR
char ary[4] = {1, 2, 4, 8}; // OK
char ary[ ] = {1, 2, 4, 8}; // ERR
```

2

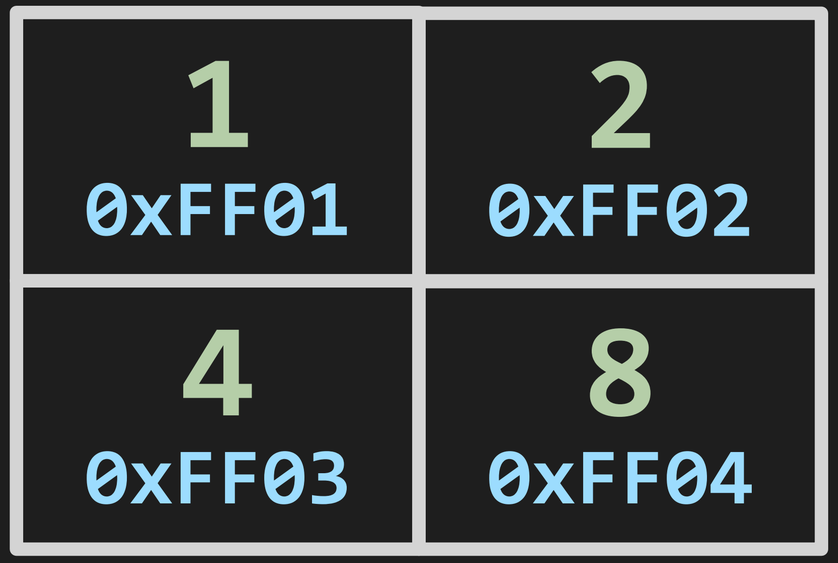


Tablice

1

```
char ary2d[2][2] = {1, 2, 4, 8};
char ary2d[2][2] = {{1, 2}, {4, 8}};
```

2



Tablice

```
char x, ary[4], ary2d[2][2];
x = ary[0]; // OK
x = ary[0][0]; // ERROR
x = ary2d[0][0]; // OK
x = ary2d[0]; // OK
```

Łańcuchy znaków

```
1
```

```
char str1[100] = "Hello\0";
char str2[] = "Hello";
char str3[6] = { 'H','e','l','l','o', '\0' };
char str4[] = { 'H','e','l','l','o', 0 };
char str5[] = { 72,101,108,108,111,0 };
char str6[] = { 0x48,0x65,0x6C,0x6C,0x6F,0x00 };
```

```
2
```

Łańcuchy znaków

1

```c
char str[] = "Hello";
```

2

```c
printf("%s\n", str); // Hello
printf("%c\n", str[0]); // H
printf("%u\n", str[0]); // 72
printf("0x%x\n", str[0]); // 0x48
```

Łańcuchy znaków

```
1  char str[] = "Hello";

   printf("%c\n", *str); // H
   printf("%c\n", str[2]); // l
2  printf("%s\n", str + 2); // llo
   printf("%c\n", *(str + 2)); // l
   printf("%s\n", &str[2]); // llo
```

0	0x00	[NULL] \0	16	0x10	[DATA LINK ESCAPE]
1	0x01	[START OF HEADING]	17	0x11	[DEVICE CONTROL 1]
2	0x02	[START OF TEXT]	18	0x12	[DEVICE CONTROL 2]
3	0x03	[END OF TEXT]	19	0x13	[DEVICE CONTROL 3]
4	0x04	[END]	20	0x14	[DEVICE CONTROL 4]
5	0x05	[ENQUIRY]	21	0x15	[NEGATIVE ACKNOWLEDGE]
6	0x06	[ACKNOWLEDGE]	22	0x16	[SYNCHRONOUS IDLE]
7	0x07	[BELL]	23	0x17	[END OF TRANS BLOCK]
8	0x08	[BACKSPACE]	24	0x18	[CANCEL]
9	0x09	[HORIZONTAL TAB]	25	0x19	[END OF MEDIUM]
10	0x0A	[LINE FEED] \n	26	0x1A	[SUBSTITUTE]
11	0x0B	[VERTICAL TAB]	27	0x1B	[ESCAPE]
12	0x0C	[FROM FEED]	28	0x1C	[FILE SEPARATOR]
13	0x0D	[CARRIAGE RETURN] \r	29	0x1D	[GROUP SEPARATOR]
14	0x0E	[SHIFT OFF]	30	0x1E	[RECORD SEPARATOR]
15	0x0F	[SHIFT IN]	31	0x1F	[UNIT SEPARATOR]

32	0x20	*[SPACE]*	48	0x30	0	64	0x40	@	80	0x50	P	96	0x60	`	112	0x70	p
33	0x21	!	49	0x31	1	65	0x41	A	81	0x51	Q	97	0x61	a	113	0x71	q
34	0x22	"	50	0x32	2	66	0x42	B	82	0x52	R	98	0x62	b	114	0x72	r
35	0x23	#	51	0x33	3	67	0x43	C	83	0x53	S	99	0x63	c	115	0x73	s
36	0x24	$	52	0x34	4	68	0x44	D	84	0x54	T	100	0x64	d	116	0x74	t
37	0x25	%	53	0x35	5	69	0x45	E	85	0x55	U	101	0x65	e	117	0x75	u
38	0x26	&	54	0x36	6	70	0x46	F	86	0x56	V	102	0x66	f	118	0x76	v
39	0x27	'	55	0x37	7	71	0x47	G	87	0x57	W	103	0x67	g	119	0x77	w
40	0x28	(	56	0x38	8	72	0x48	H	88	0x58	X	104	0x68	h	120	0x78	z
41	0x29	)	57	0x39	9	73	0x49	I	89	0x59	Y	105	0x69	i	121	0x79	y
42	0x2A	*	58	0x3A	:	74	0x4A	J	90	0x5A	Z	106	0x6A	j	122	0x7A	z
43	0x2B	+	59	0x3B	;	75	0x4B	K	91	0x5B	[	107	0x6B	k	123	0x7B	{
44	0x2C	,	60	0x3C	<	76	0x4C	L	92	0x5C	\	108	0x6C	l	124	0x7C	|
45	0x2D	-	61	0x3D	=	77	0x4D	M	93	0x5D	]	109	0x6D	m	125	0x7D	}
46	0x2E	.	62	0x3E	>	78	0x4E	N	94	0x5E	^	110	0x6E	n	126	0x7E	~
47	0x2F	/	63	0x3F	?	79	0x4F	O	95	0x5F	_	111	0x6F	o	127	0x7F	*[DEL]*

polskie znaki