

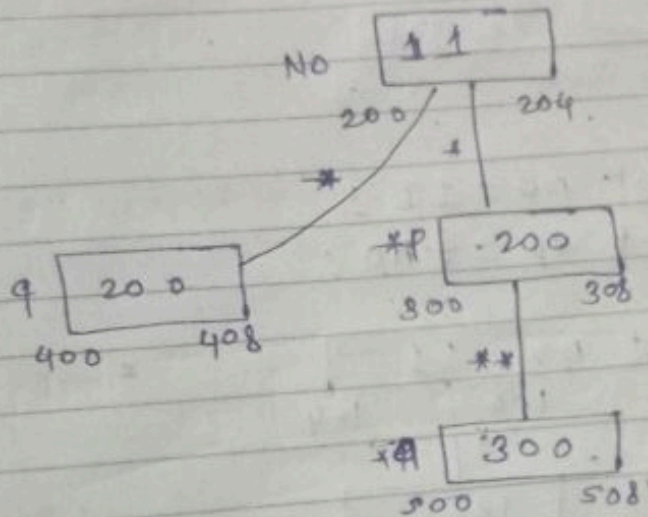
Assignment-8

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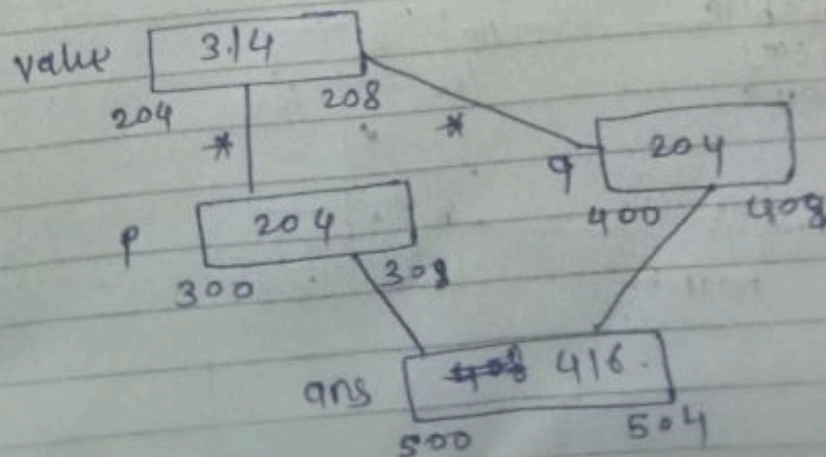
Q1

```
int no = 11;
int *p = &no;
int *q = &no;
int **q = &p;
```



Q2

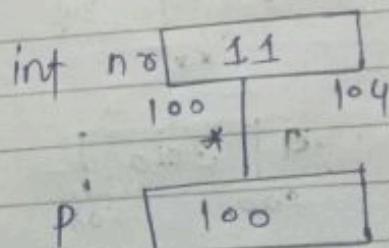
```
float value = 3.14;
float *p = &value;
float *q = p;
float ans = *p + *q;
```



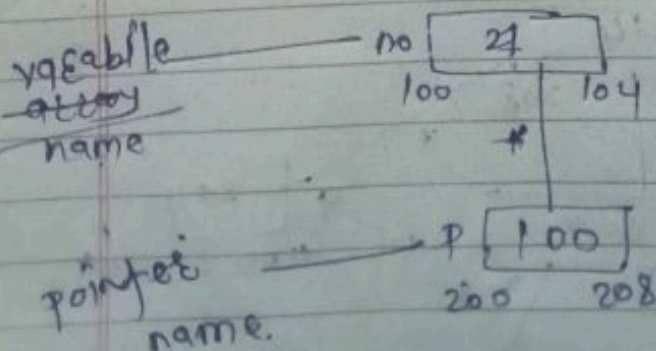
④ `int no1 = 11, no2 = 21, no3 = 51;`
`int arr[] = {no1, no2, no3};`

no

⑤ `const int no = 11;`
`const int *p = &no;`

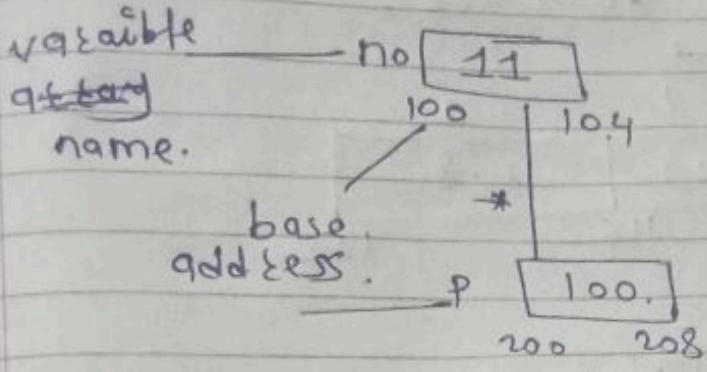


⑥ `int no = 21;`
`int *const p = &no;`



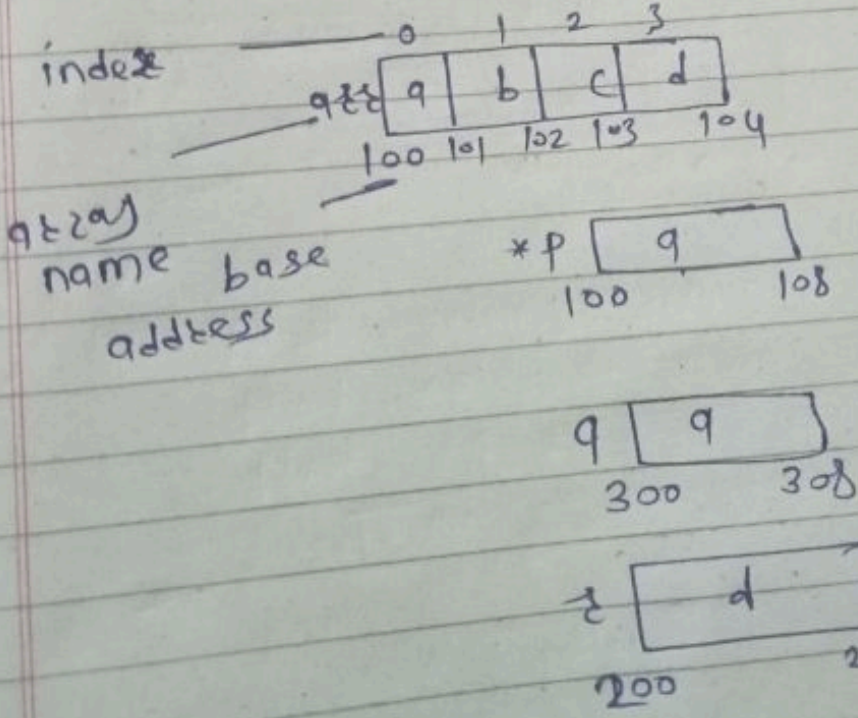
⑦

```
const int no = 11;
const int * const p = &no;
```



⑧

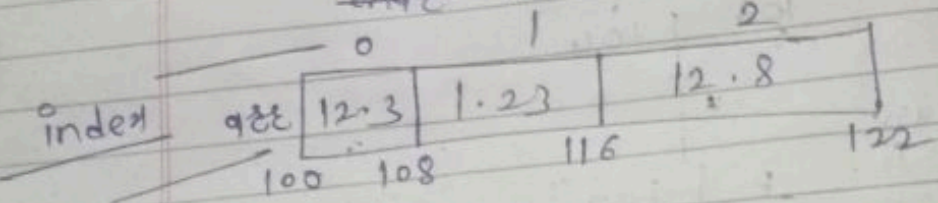
```
char arr[] = {'a', 'b', 'c', 'd'};
char *p = arr;
char *q = &arr[0];
char *z = &arr[3];
```



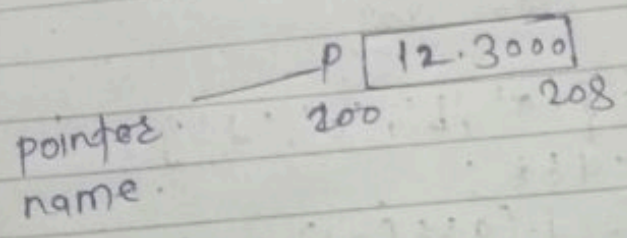
Q9. `double arr[] = { 12.3, 1.23, 12.8 };`

`double *p = arr;`

~~char *~~



array name



pointer name

Assignment -5

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- ① write a statement describe below syntax & draw a diagrammatic repⁿ.

① `int arr[4];` ← member list initializedⁿ.

`int arr[4] = {2, 3, 4, 5};`

index
or. `arr`

2	3	4	5
---	---	---	---

array name
base address

or.

`arr[0] = 2;`
`arr[1] = 3;`
`arr[2] = 4;`
`arr[3] = 5;` } member by member initializedⁿ

② `float arr[8];`

`float arr[8] = {1, 2, 3, 4, 5, 6, 7, 8};`

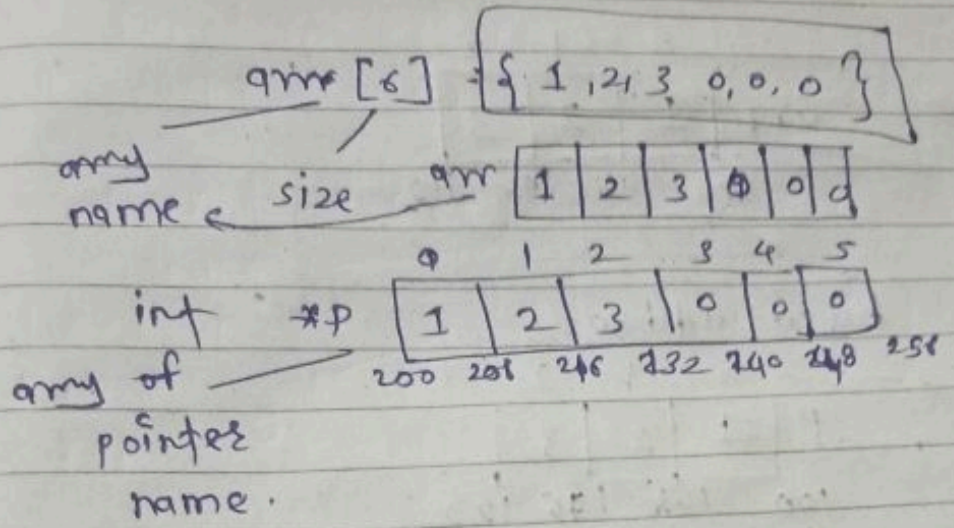
array datatype
array name
index
`arr`

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

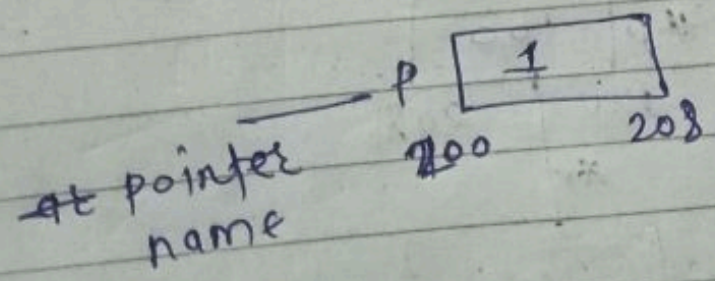
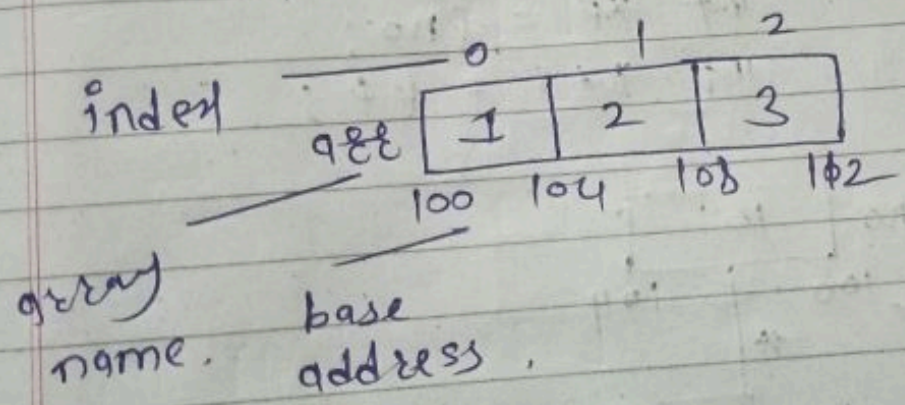
base address

array name

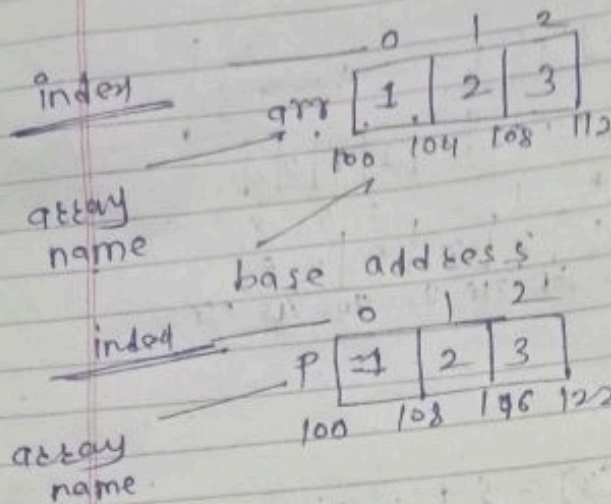
⑥ `int arr[6] = {1, 2, 3};`
`int *p = &arr;`



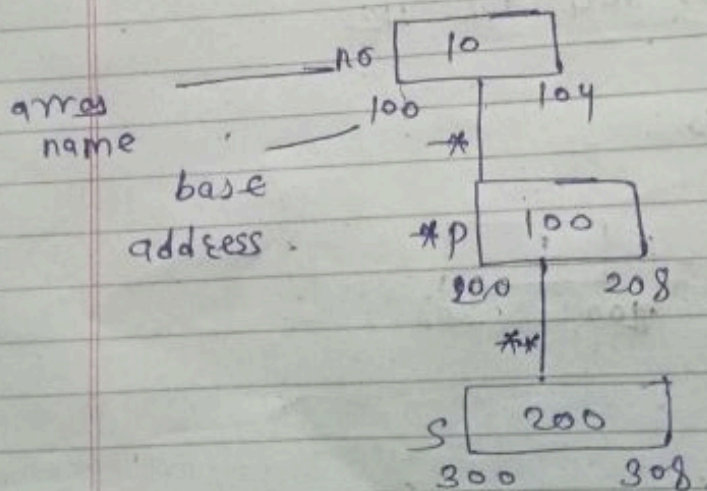
⑦ `int const arr[3] = {1, 2, 3};`
`int *p = &arr;`



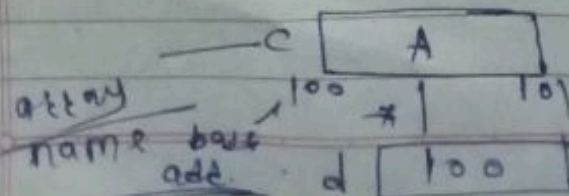
Q8 `int const arr[3] = {1, 2, 3};`
`int const *const p = &arr;`



Q9. `char arr[] = "10";`
`int *p = &no;`
`int **s = &p;`



Q10. `char c = 'A';`
`char *d = &c;`



③ `int arr[3][5];`
index 0 1 2 3 4 5 6 7
`arr[3][5] = { 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30};`

array name

	0	1	2	3	4
0	2	4	6	8	10
1	12	14	16	18	20
2	22	24	26	28	30

total size of arr = 15×4
 = 60 byte

④ `double arr[3][2];`

`arr[3][2] = { 2, 4, 6, 8, 10, 12};`

array name

size of arr

<u>index</u>	0	1
0	2	4
1	6	8
2	10	12

& total size is - $6 \times 8 = 48$ byte.

⑤ `char arr[2][4];`

`char arr[2][4] = {'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H'};`

arr	A	B	C	D
	E	F	G	H

array name.

& total size of arr is = 8 byte