
Arrays

Declarations

10

10

10

Declarations

```
int    a    =    10
```

```
int    b    =    10
```

```
int    c    =    10
```

Declarations

int a = 10

int a = 10

int a = 10

int a = 10

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Declarations

```
int    a    =    10
```

```
int    b    =    10
```

```
int    c    =    10
```

```
int    d    =    10
```

```
int    e    =    10
```

```
int    f    =    10
```

Arrays

```
int a[];
```

Declaration

```
a=new int[3];
```

Instantiation

```
a[0]=100;
```

```
a[1]=200;
```

```
a[2]=300;
```

Initialization

Arrays

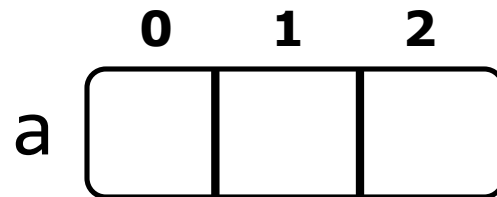
```
int a[];
```

```
a=new int[3];
```

```
a[0]=100;
```

```
a[1]=200;
```

```
a[2]=300;
```

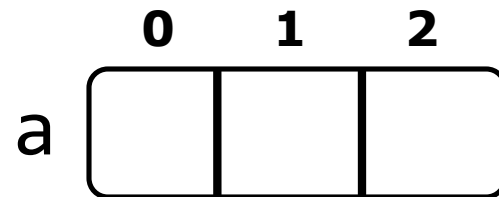


Arrays

Single Dimensional

Two Dimensional

Multi Dimensional



Arrays Declaration

```
int    a[] = new int[2];
```

```
int[]   a = new int[3];
```

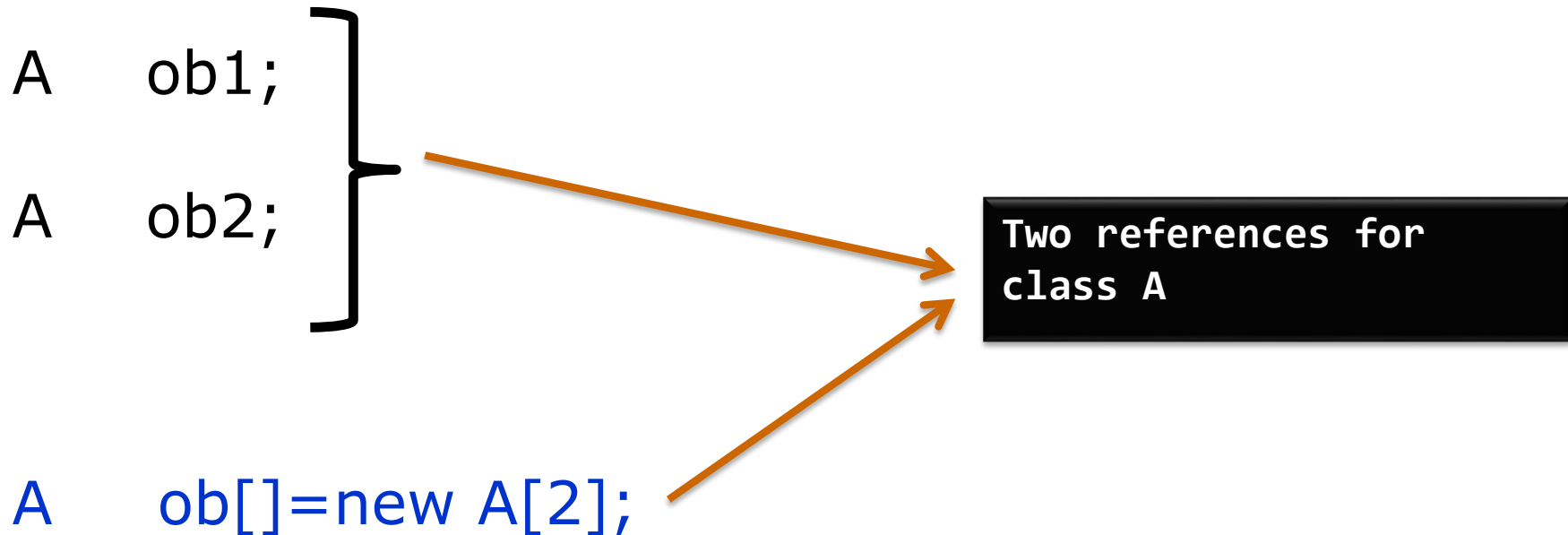
```
int    a[] = {10,20,30,40,50};
```

Arrays using Class

A ob1;

A ob2;

Arrays using Class



Arrays using Class

A ob1 = new A();

A ob2 = new B();

A ob3 = s1;

A ob4 = s2;

A s1=new A();
s1.x=100;

B s2=new B();
s2.x=200;
s2.y=300;

Arrays using Class

```
A  ob1  =  s1;
```

```
A  ob2  =  s2;
```

```
    ob[0] =  s1;
```

```
    ob[1] =  s2;
```

```
A  s1=new  A();  
    s1.x=100;
```

```
B  s2=new  B();  
    s2.x=200;  
    s2.y=300;
```

Arrays using Class

```
A ob[]=new A[2];
```

```
ob[0]=s1;
```

```
ob[1]=s2;
```

```
ob[0].add();
```

```
ob[1].add();
```

```
B o3=(B)ob[1];
```

```
o3.add();
```

```
o3.sum();
```

```
A s1=new A();  
s1.x=100;
```

```
B s2=new B();  
s2.x=200;  
s2.y=300;
```

Arrays

```
int a[][];
```

```
a=new int[2][3];
```

a

	0	1	2
0			
1			

Arrays

	0	1	2
0			
1			

2D Array

```
int a[][];
```

```
a=new int[2][2];
```

```
a[0][0]=100;
```

```
a[0][1]=200;
```

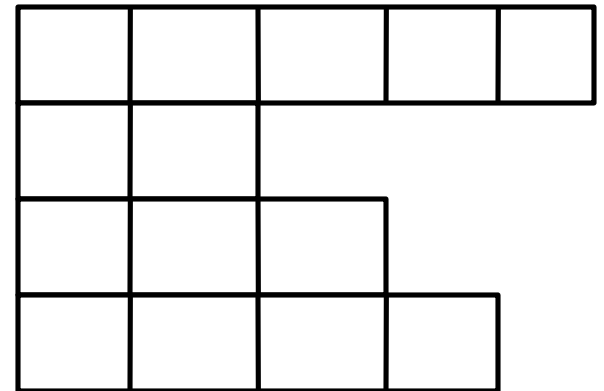
```
a[1][0]=300;
```

```
a[1][1]=400;
```

```
int a[][]=  
    {  
        {10,20,30,40,50,60,70},  
        {15,25,35,45,55,65,75},  
        {5,10,15,20,25,30,35}  
    };
```

Arrays

```
int a[][] = new int[4][];
```



Arrays

```
int a[][] = new int[4][];
```

```
a[0]=new int[5];  
a[1]=new int[2];  
a[2]=new int[3];  
a[3]=new int[4];
```

