



Today's agenda

↳ quizzes and learnings



AlgoPrep



```
int x = 10;
```

Quiz 1:

Syntax to declare the variable?

- a) type variable_name = value; ✓✓
- b) variable_name type = value;
- c) variable_name = value;
- d) none of the above;

Quiz 2:

↳ Declare an int variable with name y and value 20?

```
int y = 20;
```

Quiz 3:

```
int a = 10;
```

```
int b = 20;
```

```
System.out.println(10a + 20b); → 30
```



Quiz 4:

```
int a = 20;  
int b = 30;  
System.out.println(a + " " + b);
```

Quiz 5:

```
int temp = 10;  
System.out.println(temp);
```

↳ error

20
temp

Quiz 6:

- 1 System.out.println(a); → error
- 2 int a = 10;

Quiz 7:

```
int a = 20;  
int a = 30; → error  
System.out.println(a)
```

20
a



Quiz 8:

```
int n = 20;  
System.out.print(n);  
n = 40;  
System.out.println(n);
```

40
20
n

20 40

Quiz 9:

```
int a = 10;  
int b = 20;  
a = b + 30;  
→ System.out.println(a);
```

50
10
a

20
b

50



* variable naming rules:

1. Name can contain lowercase, uppercase or digits [0-9] or \$ (dollar) or '-' (underscore).

2. First letter of the variable name can't be number.

3. Can't use reserve words as variable name.

Reserved words: words which are predefined in java. ex: Public, Static, void, int etc.



Quiz 10:

int m = 10; ✓

ans = 1

int 1y = 20; ✗✗

int y@b = 30; ✗✗

↳ How many of above are correct variable names.

Quiz 11:

int -y = 10; ✓

int any = 20; ✓

ans = 3

int n a = 30; ✗✗

int y#2 = 45; ✓

↳ How many of above are correct variable names.

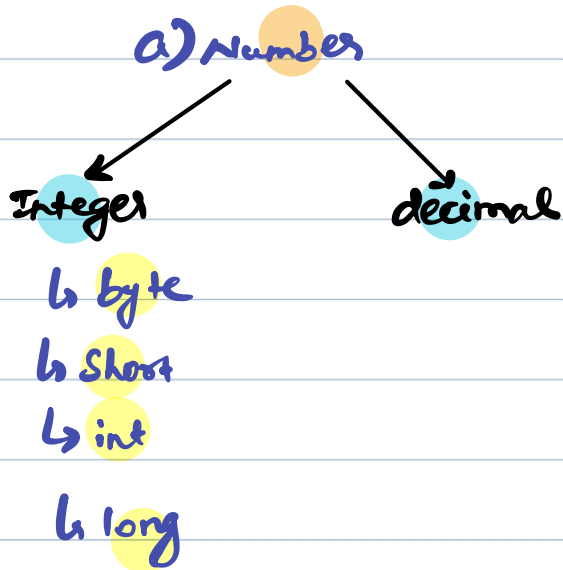
Quiz 12:

int Static = 60; → error

System.out.println(Static);



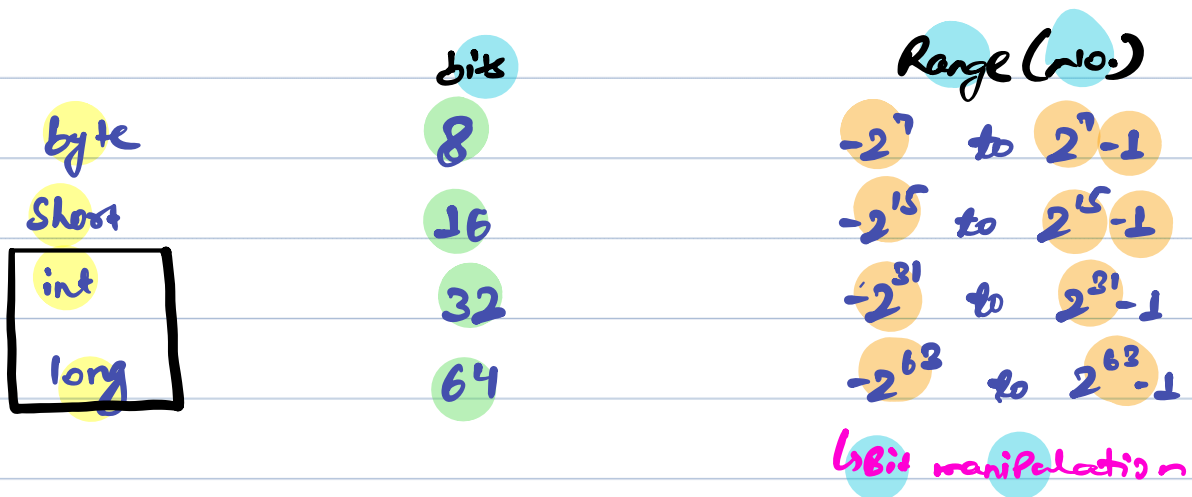
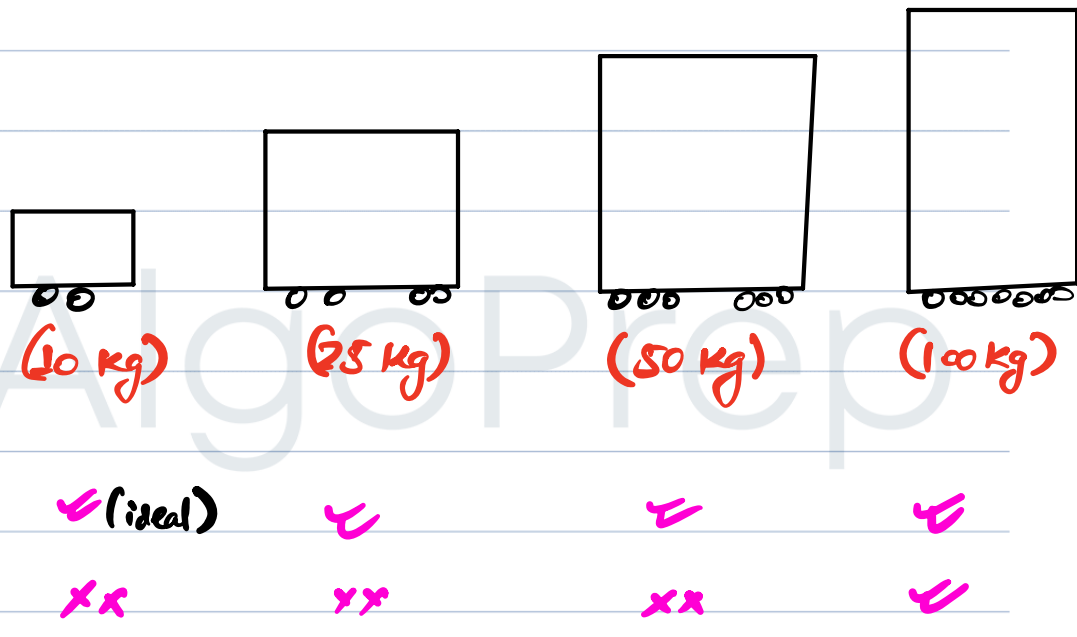
* Different categories of data



b) Text

c) boolean

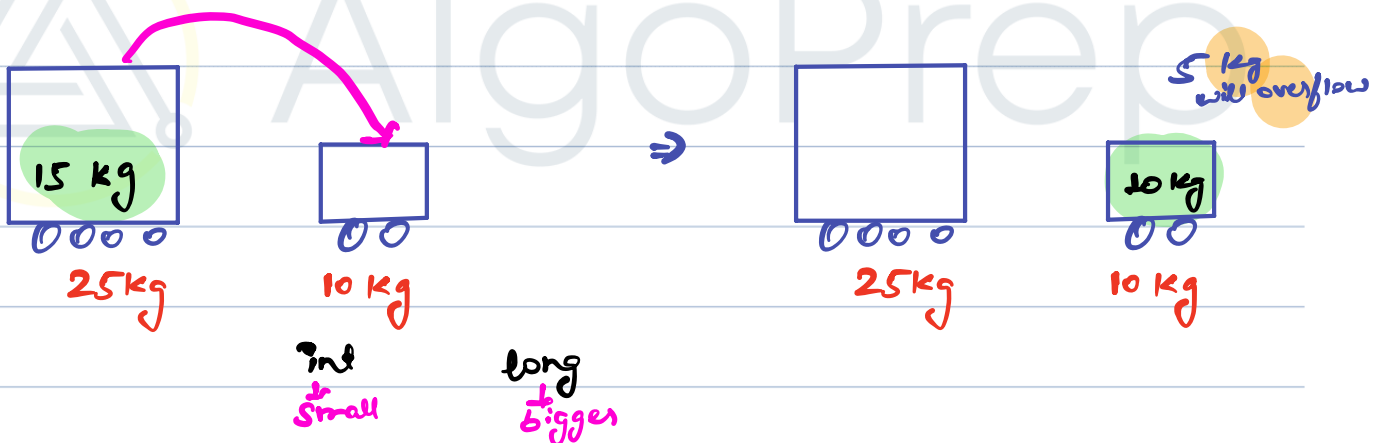
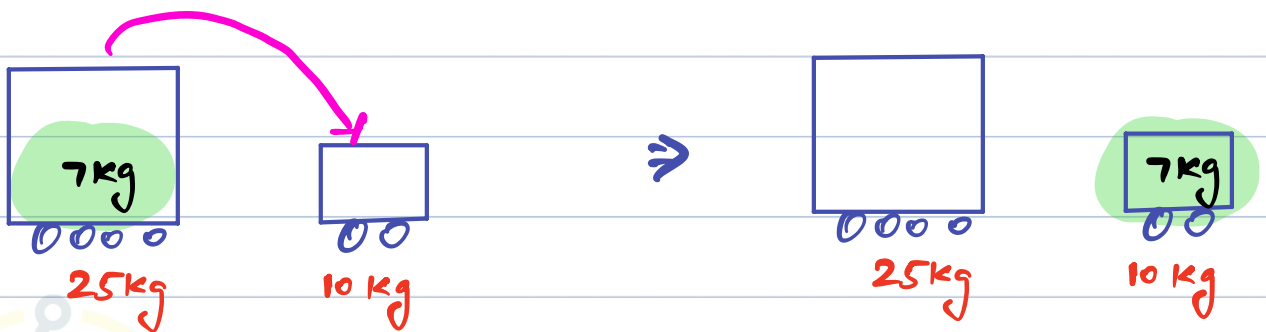
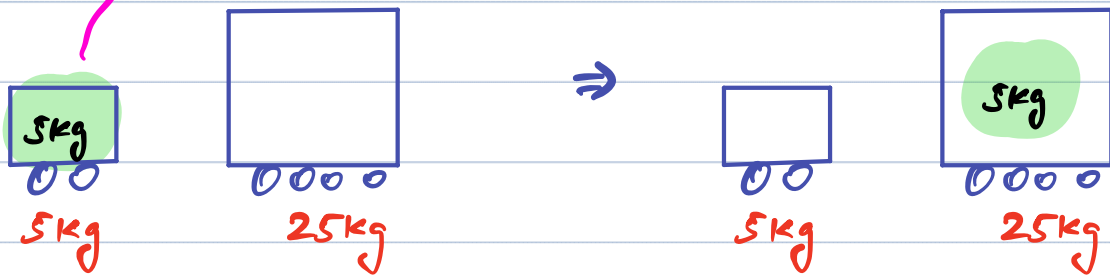
Bharu Postap truck Service



BigInteger



→ **Typecasting** → converting one type to other



ex1:

```
int x = 100;
```

→ Small to big

```
long y = x;
```

→ implicit typecasting

ex2:

```
long x = 1000;
```

```
int y = (int) x;
```

→ big to small

→ explicit typecasting

ex3:

```
long x = 235;
```

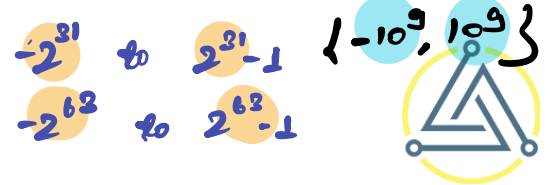
```
int y = (int) x;
```

→ y random value
↳ can be guessed



32

64



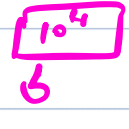
Quiz 13:

```
int a = 10000;
```

```
long b = a;
```

```
System.out.println(b);
```

→ implicit



Quiz 14:

```
long n = 100000;
```

```
int y = (int) n;
```

```
int y = n;
```

→ error

```
System.out.println(y);
```

big to small
explicit typecasting

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Quiz 15:

```
long a = 10^6L;
```

```
int b = (int) a;
```

```
System.out.println(b);
```

explicit typecasting

predictable
random value {BITS class}



Quiz 16:

input : 30

```
Scanner scn = new Scanner(System.in);  
int n = scn.nextInt();  
System.out.println(n);
```

Quiz 17:

input : 30

```
Scanner scn = new Scanner(System.in);  
int n = scn.nextInt();  
System.out.println(n);
```

Quiz 17:

input : 30

```
Scanner scn = new Scanner(System.in);  
int n = scn.nextInt();  
System.out.println(n);
```



input : 24 30

```
Scanner scn = new Scanner(System.in);
```

```
int n = scn.nextInt();
```

```
int y = scn.nextInt();
```

```
System.out.println(n); → 24
```

Break till 5:35 PM



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①

Big tech giant

↳ JPMorgan

↳ AT&T

↳ Adobe

↳ JP Morgan

↳ Walmart

↳ GS

②

Big startups

↳ Zomato

↳ Swiggy

↳ Paytm etc.

↳ Flipkart

↳ Barclays??

↳ Ola

③

early stage startups / ...

↳ Cognizant

↳ Accenture

↳ TCS

Big tech giant

①

→

6 rounds

→ 1 Screening → DSA

70-75% DSA

↳ upto 2.5 yrs. of exp

→ 3 rounds → DSA + 1 round → Dev + Core subject

↳ 2 rounds

→ DSA → 1 round + 1 round → Dev + Core subject

↳ 1 HR → Non technical

4/6 → DSA

1/6 → Dev

1/6 → HR

30-40 LPA

Big startups

↳ 5 rounds

→ 2 round dsa (mon)

→ 2 rounds dev { 1 round system design }

↳ 1 HR

↳ 15-25

→ 40% DSA

→ 40% dev

→ 10% HR

early stage startup

↳ 5 rounds

→ 1 round dsa (mon)

→ 3 round dev & code they are looking for?

↳ 1 HR

↳ 5-15



1st/2nd yr.
(Big tech giants)

3rd/4th yr.
(Big tech giants + startups)

graduate

working
(service based)
to
tech giant

look for
{startups}

→ 6 months → DSA
→ 4-5 months → Dev
{next.js, Node.js}

→ MTW → DSA } 6 months
→ TFS → Dev }
 {next.js / node.js}

DSA
↓ foundation
level up

Dev
{next.js / node.js}
↳ 2-5 months
+ DSA foundation



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