



How is Data Stored?

Deadline

Feb 14, 2021, 11:59 PM

Lecture

100.0%

Score 60.00/60



Binary Number System



How negative numbers are stored?



Short data type ●

10.0/10



Byte ●

10.0/10



How characters are stored?



Typecasting



Check for Error ●

10.0/10



Figure out the Output ●

10.0/10



Figure out the Output ●

10.0/10



Automatic type conversion ●

10.0/10



Java Intro Notes

Short data type

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Short data type has a minimum value of -

Options

☐ -2,147,483,648☒ -32,768 ✓☐ -32,767☐ -127

Correct Answer

Solution Description

####Short is of 16 bits. So the smallest value short can store is : -2^{15} .



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Java Intro Notes

Byte

[Send Feedback](#)Range of **byte** data type is ?

Options

- ☐ -128 to 255
- ☐ -128 to 256
- ☒ -128 to 127 ✓
- ☐ -127 to 128

Correct Answer

Solution Description

####Range of byte(8 bits) is : -2^7 to 2^7-1



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Java Intro Notes

Check for Error

[Send Feedback](#)

Will following statement give an error ?

```
float f = 1.4;
```

Options

☒ Yes ✓

☐ No

Correct Answer

Solution Description

####System treats all decimal numbers as double by default, So 1.4 is stored as double(which is of 8 bytes). When we will try put a double into a float(which is of 4 bytes), it will give you error.





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- Figure out the Output** 10.0/10
- Figure out the Output 10.0/10
- Automatic type conversion 10.0/10
- Java Intro Notes

Figure out the Output

[Send Feedback](#)

What will be the output of the following statement ?

```
System.out.println('a' + 1);
```

Answer

Type here

98



Correct Answer

Solution Description

####When you add a character and an int, it will add the ASCII value of char 'a' i.e 97 and int 1. So ans will be 98.





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- Java Intro Notes

Figure out the Output

Send Feedback

What will be the output ?

```
int i = 'c';
System.out.println(i);
```

Answer

Type here

99



Correct Answer

Solution Description

When we put char 'c' into an int, its ASCII value will be put in the int i.e. 99.





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How characters are stored?



Typecasting



Check for Error ●

10.0/10



Figure out the Output ●

10.0/10



Figure out the Output ●

10.0/10



Automatic type conversion ●

10.0/10



Java Intro Notes

Automatic type conversion

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Automatic type conversion in Java takes place when :

Options

- ☐ 1. Two type are compatible and size of destination type is shorter than source type.
- ☒ 2. Two type are compatible and size of destination type is larger than source type. ✓
- ☐ 3. Both 1 and 2
- ☐ 4. None of the above

Correct Answer