

Q6) what are Generics in Java?

Ans:- Generics in java are used to provide type safety and ~~extra~~ redundancy by allowing the use of generic type. it allows classes, methods and interfaces to be written generically without specifying the type of data being used.

Q7) what are the benefits of using Generics in Java?

Ans:-
Type safe
Code reusability
improved readability
Reduced code redundancy
improved performance

Q8) what is a generic class in Java?

Ans:- A Generic class in Java is a class that can work with different type of data. It is defined a type parameter enclosed in angle brackets, which represents the type of data being used.

Q9) what is a Type parameter in Java Generics?

Ans:- A Type parameter in Java Generics is a placeholder for the type of data that is used by a generic class or method. it is defined using a single uppercase letter enclosed in angle brackets such as <T> or <E>.

(9) what is generic method in Java?

Ans:- A generic method in Java is a method that can work with different type of data. It is defined using a type parameter enclosed in angle brackets which represents the type of data being used.

(10) what is the difference between `ArrayList` and `ArrayList<T>`?

Ans:- `ArrayList` is a non-generic class while `ArrayList<T>` is a generic class. `ArrayList<T>` provides type safety as it can only store elements of the specific type, where as `ArrayList` store any type of element.

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Map & Generics

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(1) what is a map in java?

Ans:- A map is a collection in java that stores the data as key-value pairs where each key is unique.

(2) what are commonly use implementations of map in java?

Ans:- The commonly used implementations of map in java are Hash map, TreeMap, Linked Hash map and concurrent Hash map.

(3) what is the difference between Hash map and TreeMap.

Ans:- Hash map is an unordered collection that uses hashing to store ^{the} key-value pairs, while TreeMap is a sorted collection that stores the key-value pairs in a sorted order based on the ~~Actual~~ natural order of the keys and over custom comparator.

(4) How does you check if a key exists in a map in java?

Ans:- We can check if a key exists in a map in java using the `containsKey()` method or the `get()` method. The `containsKey()` method returns a boolean value indicating whether the map contains the specified key, while the `get()` method returns the value associated with the specified key, or null if the key is not present in the map.

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