Initialize arraylist java android

In the last post we discussed about class ArrayList in Java and it's important methods. Here we are sharing multiple ways to initialize an ArrayList with examples. Method 1: Initialization using Arrays.asList Syntax: ArrayList obj = new ArrayList(Arrays.asList(Object o1, Object o2, Object o3, ...so on)); Example: import java.util.*; public class InitializationExample1 { public static void main(String args[]) { ArrayList obj = new ArrayList(Arrays.asList("Pratap", "Peter", "Harsh")); System.out.println("Elements are:"+obj); } } Output: Elements are:[Pratap, Peter, Harsh] Method 2: Anonymous inner class method to initialize ArrayList Syntax: ArrayList obj = new ArrayList(){{ add(Object o1); add(Object o2); add(Object o3); ... ... }}; Example: import java.util.*; public class InitializationExample2 { public static void main(String args[]) { ArrayList cities = new ArrayList(){{ add("Delhi"); add("Agra"); add("Chennai"); }}; System.out.println("Content of Array list cities:"+cities); } } Output: Content of Array list cities:[Delhi, Agra, Chennai] Method3: Normal way of ArrayList initialization Syntax: ArrayList obj = new ArrayList(); obj.add("Object o1"); obj.add("Object o2"); obj.add("Object o3"); ... ... Example: import java.util.*; public class Details { public static void main(String args[]) { ArrayList books = new ArrayList(); books.add("Java Book1"); books.add("Java Book2"); books.add("Java Book3"); System.out.println("Books stored in array list are: "+books); } } Output: Books stored in array list are: [Java Book1, Java Book2, Java Book3] Method 4: Use Collections.ncopies Collections.ncopies method can be used when we need to initialize the ArrayList with the same value for all of its elements. Syntax: count is number of elements and element is the item value ArrayList obj = new ArrayList(Collections.nCopies(count, element)); Example: import java.util.*; public class Details { public static void main(String args[]) { ArrayList intlist = new ArrayList(Collections.nCopies(10, 5)); System.out.println("ArrayList items: "+intlist); } } Output: ArrayList items: [5, 5, 5, 5, 5, 5, 5, 5, 5, 5] public class ArrayList extends AbstractList implements List, RandomAccess, Cloneable, Serializable Resizable-array implementation of the List interface. Implements all optional list operations, and permits all elements, including null. In addition to implementing the List interface, this class provides methods to manipulate the size of the array that is used internally to store the list. (This class is roughly equivalent to Vector, except that it is unsynchronized.) The size, isEmpty, get, set, iterator, and listIterator operations run in constant time. The add operation runs in amortized constant time, that is, adding n elements requires O(n) time. All of the other operations run in linear time (roughly speaking). The constant factor is low compared to that for the LinkedList implementation. Each ArrayList instance has a capacity. The capacity is the size of the array used to store the elements in the list. It is always at least as large as the list size. As elements are added to an ArrayList, its capacity grows automatically. The details of the growth policy are not specified beyond the fact that adding an element has constant amortized time cost. An application can increase the capacity of an ArrayList instance before adding a large number of elements using the ensureCapacity operation. This may reduce the amount of incremental reallocation. Note that this implementation is not synchronized. If multiple threads access an ArrayList instance concurrently, and at least one of the threads modifies the list structurally, it must be synchronized externally. (A structural modification is any operation that adds or deletes one or more elements, or explicitly resizes the backing array; merely setting the value of an element is not a structural modification.) This is typically accomplished by synchronizing on some object that naturally encapsulates the list. If no such object exists, the list should be "wrapped" using the Collections.synchronizedList method. This is best done at creation time, to prevent accidental unsynchronized access to the list: List list = Collections.synchronizedList(new ArrayList(...)); The iterators returned by this class's iterator and listIterator methods are fail-fast: if the list is structurally modified at any time after the iterator is created, in any way except through the iterator's own remove or add methods, the iterator will throw a ConcurrentModificationException. Thus, in the face of concurrent modification, the iterator fails quickly and cleanly, rather than risking arbitrary, non-deterministic behavior at an undetermined time in the future. Note that the fail-fast behavior of an iterator cannot be guaranteed as it is, generally speaking, impossible to make any hard guarantees in the presence of unsynchronized concurrent modification. Fail-fast iterators throw ConcurrentModificationException on a best-effort basis. Therefore, it would be wrong to write a program that depended on this exception for its correctness: the fail-fast behavior of iterators should be used only to detect bugs. This class is a member of the Java Collections Framework. See also: CollectionListLinkedListVector ArrayList(int initialCapacity) Constructs an empty list with the specified initial capacity. ArrayList() Constructs an empty list with an initial capacity of ten. ArrayList(Collection c) Removes from this list all of its elements that are contained in the specified collection. boolean removeIf(Predicate c) Retains only the elements in this list that are contained in the specified collection. E set(int index, E element) Replaces the element at the specified position in this list with the specified element. int size() Returns the number of elements in this list. void sort(Comparator c) Removes all of this collection's elements that are also contained in the specified collection (optional operation). This implementation iterates over this collection, checking each element returned by the iterator in turn to see if it's contained in the specified collection. boolean retainAll(Collection c) Retains only the elements in this collection that are contained in the specified collection (optional operation). This implementation iterates over this collection, checking each element returned by the iterator in turn to see if it's contained in the specified collection. abstract int size() Returns the number of elements in this collection. T[] toArray(T[] a) Returns an array containing all of the elements in this collection; the runtime type of the returned array is that of the specified array. This implementation returns an array containing all the elements returned by this collection's iterator in the same order, stored in consecutive elements of the array, starting with index 0. Object[] toArray() Returns an array containing all of the elements in this collection. This implementation returns an array containing all the elements returned by this collection's iterator, in the same order, stored in consecutive elements of the array, starting with index 0. String toString() Returns a string representation of this collection. From class java.lang.Object Object clone() Creates and returns a copy of this object. boolean equals(Object obj) Indicates whether some other object is "equal to" this one. void finalize() Called by the garbage collector on an object when garbage collection determines that there are no more references to the object. final Class getClass() Returns the runtime class of this Object. int hashCode() Returns a hash code value for the object. final void notify() Wakes up a single thread that is waiting on this object's monitor. final void notifyAll() Wakes up all threads that are waiting on this object's monitor. String toString() Returns a string representation of the object. final void wait(long timeout, int nanos) Causes the current thread to wait until another thread invokes the notify() method or the notifyAll() method for this object, or some other thread interrupts the current thread, or a certain amount of real time has elapsed. final void wait(long timeout) Causes the current thread to wait until either another thread invokes the notify() method or the notifyAll() method for this object, or a specified amount of time has elapsed. final void wait() Causes the current thread to wait until another thread invokes the notify() method or the notifyAll() method for this object. From interface java.util.List abstract boolean add(E e) Appends the specified element to the end of this list (optional operation). abstract void add(int index, E element) Inserts the specified element at the specified position in this list (optional operation). abstract boolean addAll(Collection c) Retains only the elements in this collection that are contained in the specified collection (optional operation). abstract int size() Returns the number of elements in this collection. default Spliterator spliterator() Creates a Spliterator over the elements in this collection. default Stream stream() Returns a sequential Stream with this collection as its source. abstract T[] toArray(T[] a) Returns an array containing all of the elements in this collection; the runtime type of the returned array is that of the specified array. abstract Object[] toArray() Returns an array containing all of the elements in this collection. Public constructors public ArrayList (int initialCapacity) Constructs an empty list with the specified initial capacity. Parameters initialCapacity int: the initial capacity of the list public ArrayList () Constructs an empty list with an initial capacity of ten. public ArrayList (Collection

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