

Introduction To JAVA (In English) Java Basics Course DSA In Java

This topic is a part of the series data structures and algorithms in java by coding ninjas the ultimate guide from scratch to hash that makes you unbeatable in dsa using java. In this video we will see why we should learn java how java came into the picture and it's history. We'll go to core aspects like features of java terminologies used in java and also see a brief comparison between java and c plus plus. We will see which tools are actually required to run java program in your pc. i will solve few questions on code studio with you and at the end of that i will explain line to line the meaning of each line in the java. Java is a platform independent application programming language because it is used to build applications which do not have constraints over of its operating systems. The language is robust that means it is reliable it is developed to put much effort into checking errors as early as possible that is why java compilers can detect those errors which are not easy to see by other programming languages. There is three phases in java program first of all we write the java code in our compiler then the compilation of code of java is done by jvac. After writing the code it is sent to java compiler that is java compiler. Java has jvm that has inbuilt program known as a garbage collector garbage collectors can recall objects that are not referenced.

Data Structures In Java

Data structures are just a particular way of organizing data in a computer so only that and why do we need them because the amount of data is very huge so using different kinds of data structures according to our needs becomes very important because it help us in storing the data efficiently and retrieving the data quickly as well in future when we need to do something about the data. Some of the basic operations that we can perform on these data structures are performed on dynamic data structures. The next operation is insertion like in case of a linked list necklace necklace is like this. An array is just a collection of similar type of data elements which are stored at contiguous memory locations. To declare an array we should know two things first the size of the element and the data type if i know these two things i can create an error and the syntax syntax is very easy. Arrays store only similar type of data elements which mean it will store the similar types of data types. The indexing of an array always starts from 0.

Algorithms in Java

Data structure and algorithm in java by coding ninjas. In this topic we'll be discussing what are algorithms some real-life scenarios of algorithms. Advantages of algorithms how we can improve an algorithm why do we need algorithm? We want to find a way in which we are able to find the meaning of our word in a very short amount of time all right. We observe that dictionary the words of dictionary are sorted all right so using this observation we can improvise our algorithm so what do i mean by that? We can simply remove the left hand side of our dictionary and we can only find for the word said or whatever or our word with what we were looking for on the right hand side. In the worst case the answer would be total number of pages that we have searched all the pages of the dictionary.