What is ternary search?

Ternary search is a [decrease(by constant) and conquer algorithm](http://www.geeksforgeeks.org/divide-and-conquer-introduction/) that can be used to find an element in an [array](https://www.geeksforgeeks.org/array-data-structure/). It is similar to [binary search](http://www.geeksforgeeks.org/binary-search/) where we divide the array into two parts but in this algorithm, we divide the given array into three parts and determine which has the key (searched element). We can divide the array into three parts by taking mid1 and mid2 which can be calculated as shown below. Initially, l and r will be equal to 0 and n-1 respectively, where n is the length of the array.

Crash courses about UML diagrams

* Class diagram.
* Package diagram.
* Object diagram.
* Component diagram.
* Composite structure diagram.
* Deployment diagram.

What is the most common design patterns

* Singleton Design Pattern. The singleton design pattern falls under the “creational” type, restricting object creation for a class to only one instance and providing global access to a global variable.
* Decorator is probably the most used Python pattern, because of in-built decorator support

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| **DevOps** | **Agile** | **Parameter** |
| is considered a practice of bringing development and operations teams together. | Agile refers to an iterative approach which focuses on collaboration, customer feedback, and small, rapid releases. | What is it? |
| DevOps central concept is to manage end-to-end engineering processes. | Agile helps to manage complex projects. | Purpose |
| In the DevOps method, the teams must make sure that the changes which are made to the architecture never develop a risk to the entire project. | Teams using Agile support rapid change, and a robust application structure. | Speed vs. Risk |
|  |  | Tools used |
|  |  |  |

What are used tools in DevOps

1. Slack

### 2. Jenkins

### 3. Docker

### 4. Phantom

### 5. Nagios

### 6. Vagrant

### 7. Ansible

### 8. GitHub

### 9. Sentry

### 10. BitBucket