



JAVA NEW FEATURE

Pilot

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Java new features

- lambda expression - functional interface
- stream APIs
 - sorted() - can customize to override Comparator;
 - forEach()
 - filter and collect()
 - stream returns Map and min(), max()

What is Optional in java

Binary Search

Given a sorted array `arr[]` of n elements, write a function to search a given element x in `arr[]` and return the index of x in the array

| | | | | | | | | | | |
|---------------|--|----|----|----|----|----|----|----|----|---|
| | 0, | 1, | 2, | 3, | 4, | 5, | 6, | 7, | 8, | 9 |
| <i>Input:</i> | <i>arr[] = {10, 20, 30, 50, 60, 80, 110, 130, 140, 170},</i> | | | | | | | | | |
| <i>Target</i> | <i>t = 110</i> | | | | | | | | | |

Output: 6

Binary Search

1. Sort it
2. Iterative Method
3. Recursive Method

Homework 3 Check

Homework 4 - Binary Search