

Java DSA Utility Methods Cheat Sheet

Array Methods (java.util.Arrays)

Arrays.sort(arr): Sort the array
Arrays.equals(arr1, arr2): Compare two arrays
Arrays.fill(arr, val): Fill all elements with the same value
Arrays.copyOf(arr, newLength): Copy part/all of array
Arrays.toString(arr): Print array as string
Arrays.binarySearch(arr, key): Search in sorted array

String Methods (Core Java)

length(): Number of characters in a string
charAt(i): Character at index i
substring(start, end): Substring from start to end-1
equals(str): Compare two strings
equalsIgnoreCase(str): Case-insensitive comparison
contains(str): Check if string contains a substring
indexOf(char): First index of a character
toArray(): Convert string to char array
toLowerCase() / toUpperCase(): Convert case
trim(): Remove leading/trailing spaces
split(delim): Break string into array
replace(old, new): Replace characters

Math Utility Methods (java.lang.Math)

Math.max(a, b): Maximum of two numbers
Math.min(a, b): Minimum of two numbers
Math.abs(x): Absolute value
Math.pow(x, y): x raised to the power y
Math.sqrt(x): Square root of x

Collections Methods (java.util.Collections)

Collections.sort(list): Sort a list
Collections.reverse(list): Reverse the list
Collections.max(list) / min(): Max/min element in the list
Collections.frequency(list, x): Frequency of x in the list