

Context Clues (Build Errors)

Main.java (Context clue #2):52 (Context clue #3): error: **incompatible types (Context clue #4)**: inference variable T has incompatible bounds

```
List<Integer> input = Arrays.asList("6", "5", "12", "10", "9", "1");
```

^ (Context clue #5)

equality constraints: **Integer (Context clue #6)**

lower bounds: **String (Context clue #6)**

where T is a type-variable:

T extends Object declared in method <T>asList(T...)

Main.java (Context clue #2):56 (Context clue #3): error: **cannot find symbol (Context clue #4)**

```
List<Integer> sortedList = sorter.mergeSort(inputs);
```

^

symbol: variable **inputs (Context clue #7)**

location: **class Main (Context clue #8)**

2 errors (Context clue #1)

1. The number of build errors that exist. Start with the first and work down.
2. The file name where the error is.
3. The line number where the error is.
4. A brief description of the error. Can help explain why the error is occurring.
5. A pointer to where in the line the error is.
6. Type information about the variable causing the error.
7. Name of the variable that is causing the error. Check the spelling for typos.
8. The class where the error is. Can be helpful for large programs that have multiple classes in a file.

Context Clues (Runtime Errors)

Exception in thread "main" **java.lang.IndexOutOfBoundsException (Context clue #1): Index 1 out of bounds for length 1 (Context clue #5)**

at java.base/jdk.internal.util.Preconditions.outOfBounds(**Preconditions.java:64 (Context clue #2)**)

at java.base/jdk.internal.util.Preconditions.outOfBoundsCheckIndex(**Preconditions.java:70 (Context clue #2)**)

at java.base/jdk.internal.util.Preconditions.checkIndex(**Preconditions.java:248 (Context clue #2)**)

at java.base/java.util.Objects.checkIndex(**Objects.java:372 (Context clue #2)**)

at java.base/java.util.AbstractList\$SubList.get(**AbstractList.java:784 (Context clue #2)**)

at **MergeSorter.mergeSort (Context clue # 4)(Main.java:29 (Context clue #3))**

at MergeSorter.mergeSort(Main.java:19)

at MergeSorter.mergeSort(Main.java:19)

at Main.main(Main.java:56)

1. A brief of the error. Can help explain why the error is occurring.
2. File name and line numbers for most recently called functions. Work your way down and skip library code (files you did not write).
3. The file name and line number where the error is occurring. This should be the first file where you wrote code.
4. The class and function where the error is occurring.
5. A more detailed description of the error. May contain more details when working with complex objects (e.g. the index or length of a list).