JAVA 8

Sequential vs Parallel Streams



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By default, any stream operation in Java is processed sequentially, unless explicitly specified as parallel. Sequential streams use a single thread to process the pipeline.

Example: The output of below code snippet would be predictable. The list element will always be printed in ordered sequence.

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Any stream in Java can easily be transformed from sequential to parallel. This can be achieved by <u>adding</u> the <u>parallel method to a sequential stream or by creating a stream using the parallelStream method</u> of a collection. Parallel streams enable us to execute code in parallel on separate cores.

Example: The order of execution is out of our control. It may change every time we run the program.