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# Garbage collection algorithm

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| --- | --- |
| Serial Collector   * Most basic algorithm * Used in small heaps and single threaded application * Sequential execution NOT concurrent * Uncomplicated | Parallel Collector   * Referred as throughput garbage collector * Default till Java 8 * Designed for medium to large sized heaps and multithreaded applications |
| Concurrent Mark-Sweep Collector (CMS)   * Deprecated in Java 9 and removed from the Java platform in Java 14 * High resource consumption and very poor performance | Garbage First Collector (G1)   * Default collector in Java 9 * Designed to provide faster and more predictable response time * Extremely high throughput |
| Z Garbage Collector (ZGC)   * Experimental feature in Java 11 * Low latency collector * Designed to handle wide range of heap sizes from small to very large * Released as a feature in Java 15 |  |