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| **SR. NO.** | **Compiler** | **Interpreter** |
| 1 | A compiler scans the whole program at once. | It translates each statement of the program one by one. |
| 2 | A compiler takes a lot of time to analyze the source code. However, the overall time taken to execute the process is much faster. | An interpreter takes very less time to analyze the source code. However, the overall time to execute the process is much slower. |
| 3 | A compiler always generates an intermediary object code. It will need further linking. Hence more memory is needed. | An interpreter does not generate an intermediary code. Hence, an interpreter is highly efficient in terms of its memory. |
| 4 | A compiler's main advantage is its execution speed. |  |