|  |  |  |
| --- | --- | --- |
| Design # | Advantages | Disadvantages |
| 1 | * Versatile as it can store both types of data | * Code is complex * Each method needs to check the flag * Complex initialization |
| 2 | * Simple code * Polar methods perform quickly * Uses little memory * Simple initialization | * Cartesian methods perform slowly |
| 3 | * Simple code * Cartesian methods perform quickly * Uses little memory * Simple initialization | * Cartesian methods perform slowly |
| 4 | * Fast processing of methods * Simple code for methods | * Complex initialization * Uses more memory |
| 5 | * Versatile as it can store both types of data * Simple code | * Still performs some methods slowly |