Task Description:

In this assignment, we have implemented a cut rod algorithm in two different ways which are using the recursive approach and dynamic memory(memorization). Now we’ll find the difference between the number of function calls of both algorithms.

|  |  |  |  |
| --- | --- | --- | --- |
| **Rod of Length** | **Recursive Method** | **Recursive-Dynamic Method** | **Difference** |
| 4 | 16 | 11 | 5 |
| 8 | 256 | 37 | 219 |
| 12 | 4096 | 79 | 4017 |
| 16 | 65536 | 137 | 65499 |
| 20 | 1048576 | 211 | 1048365 |
| 24 | 16777216 | 304 | 16776912 |
| 28 | 268435456 | 407 | 268435049 |
| 32 | 4294967296 | 529 | 4294966767 |