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Unit 3

Module 0

Ex. 0.14

makeArray (int size) with size=5

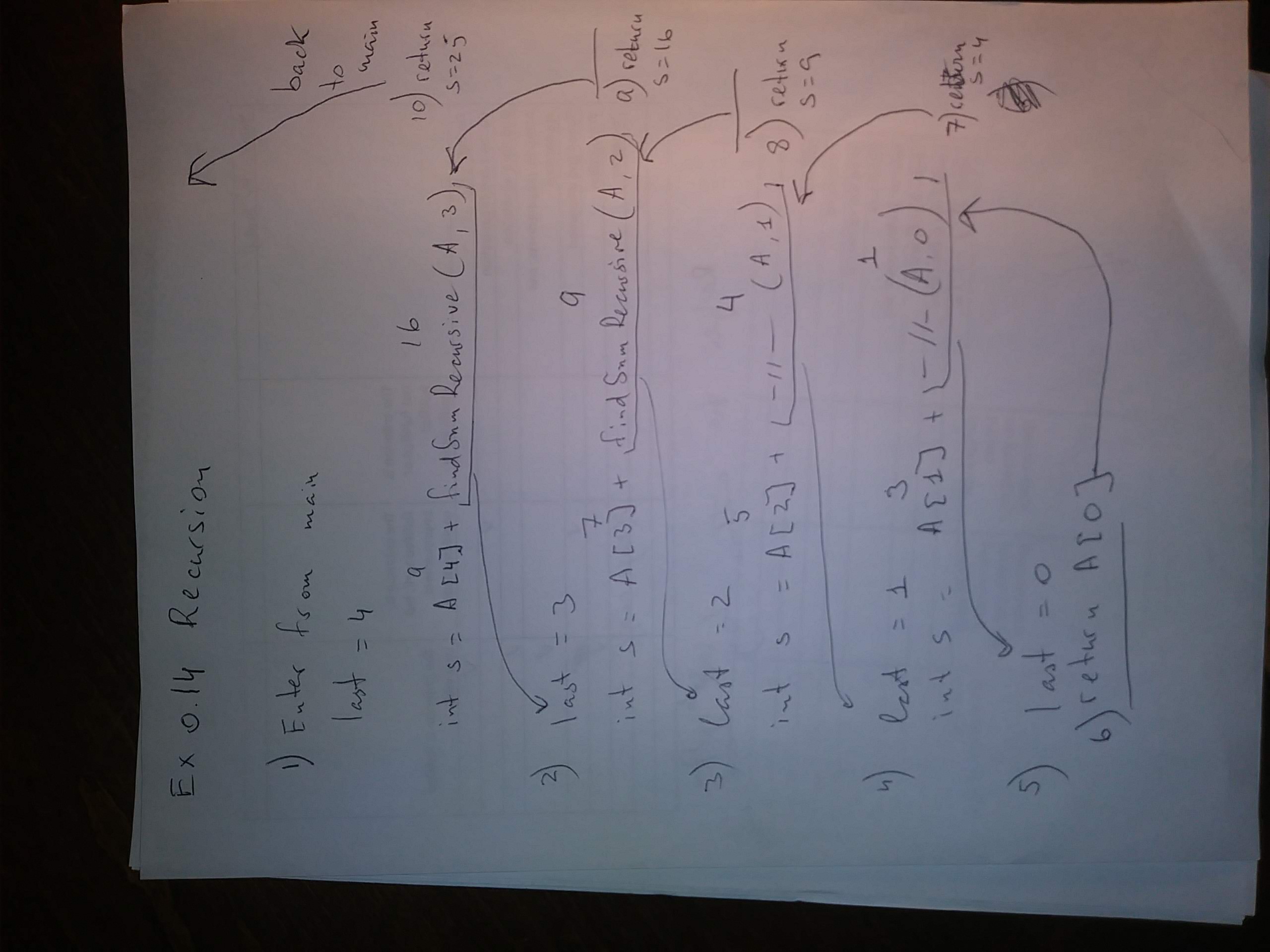
|  |  |
| --- | --- |
| **i** | **A[i]** |
| 0 | 1 |
| 1 | 3 |
| 2 | 5 |
| 3 | 7 |
| 4 | 9 |

Sum of first two elements: 4

Sum of first three elements: 9

Sum of first four elements: 16

Sum of five elements: 25



Ex. 0.16

Searching for value N-1:

N=1,000

Found=true Time taken: 0

Found2=true Time taken: 0

N=10,000

Found=true Time taken: 0

Found2=true Time taken: 0

N=100,000

Found=true Time taken: 2

Found2=true Time taken: 0

When looking for value N-1, the first difference occurs at N=100,000.