Algorithm and Data structures – Lab 01 Foundation

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**Deadline:** *None*

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**1 Java Refresher**

**Question 1.1**

Please see attached code for implementations of the RSP class…

Algorithm Pseudocode

Algorithm Runtime

**Question 1.2**

Please see attached code for implementations of the RSP class…

Algorithm Pseudocode

Algorithm Runtime

**Question 1.3**

Please see attached code for implementations of the RSP class…

Algorithm Pseudocode

Algorithm Runtime

**2 Random Access Machines**

**Question 2.4**

Please see attached code for implementations of the RSP class…

Algorithm Pseudocode

Algorithm Runtime

javap

**Question 2.5**

RAM assembly program

**Question 2.6**

RAM assembly program

**3 Correctness**

**Question 3.7**

Please see attached code for implementations of the RSP class…

Algorithm Pseudocode

Algorithm Runtime

**Question 3.8**

Please see attached code for implementations of the RSP class…

Algorithm Pseudocode

Algorithm Runtime

**Question 3.9**

**4 Cost Models**

**Question 4.10**

Frequency Model

**Question 4.11**

**Question 4.12**

**Question 4.13**

**5 Efficiency**

**Question 5.14**

**Question 5.15**

**Question 5.16**

**Question 5.17**

**Question 5.18**