|  |  |  |  |
| --- | --- | --- | --- |
| **Name:** | **Lee Yan Cheng** | **Lab Group#:** | **B10** |
| **Student Id:** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **A** | **0** | **1** | **9** | **9** | **1** | **4** | **1** | **B** | |  | |

**Task 1 – Page 1 [3 pts]**

|  |  |  |
| --- | --- | --- |
| **Tag** | **Cache Index** | **Offset** |
| 18 bits | 10 bits | 4 bits |

**Task 1 – Page 2**

* Cache Index **[2 pts]**

|  |  |
| --- | --- |
| a. | cacheIdx = (address / blockSize) % nCacheBlock |
| b. | cacheIdx = (address>>log2(blockSize))&(nCacheBlock–1) |

* Tag **[2 pts]**

|  |  |
| --- | --- |
| a. | tag = address / (blockSize \* nCacheBlock) |
| b. | tag = address >> log2(blockSize \* nCacheBlock) |

**Task 2 Demo [ 8 pts ]**