

COS10004: Computer Systems

Assignment 2 – ARM Assembly Programming

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Video link: https://drive.google.com/file/d/1l-iRdj-XsvnRZGd2VWoRqKm9zOZ_Iny5/view?usp=sharing

Demonstration:

- Starting code test with **7 flashes**
- Stage 1: Output **1 flash** at the start
 - +) Stage 1a: **2 flashes** (Minimum value of 3, 2, 4)
 - +) Stage 1b: **4 flashes** (Maximum value of 3, 2, 4)
 - +) Stage 1c: **2 flashes** (Maximum value – minimum value = 4 – 2)

- Stage 2: Output **2 flashes** at the start
numarray1: 5,1,4,2,3,3,4,1
⇒ **5 flashes – 1 flash – 4 flashes – 2 flashes – 3 flashes – 3 flashes – 4 flashes – 1 flash**

- Stage 3: Output **3 flashes** at the start
Sorted numarray1: 1,1,2,3,3,4,4,5
⇒ **1 flash – 1 flash – 2 flashes – 3 flashes – 3 flashes – 4 flashes – 4 flashes – 5 flashes**