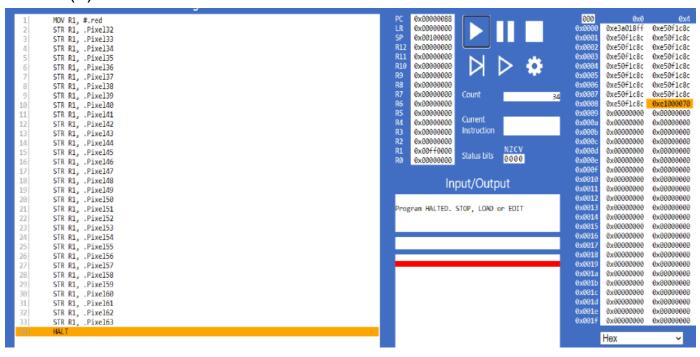
COS-10004 (Computer Systems)

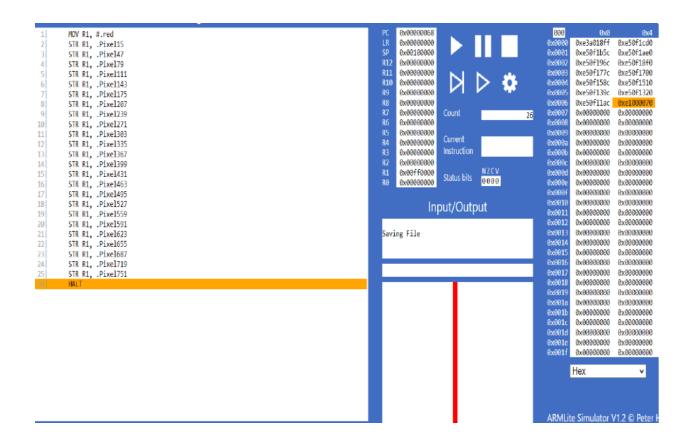
Name: Dave Nguyen (Nguyen Quang Anh).

ID: 104697710.

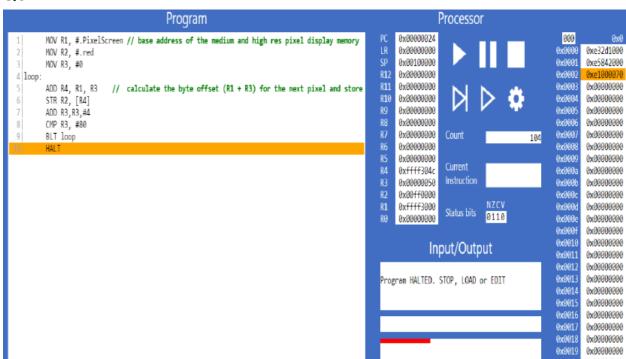
Q9.1.1 (a):



Q9.1.1 (b):



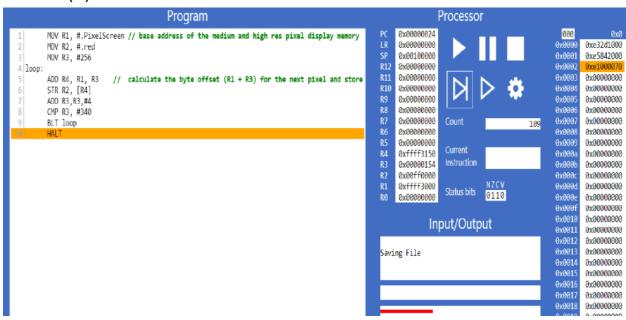
Q9.1.2:



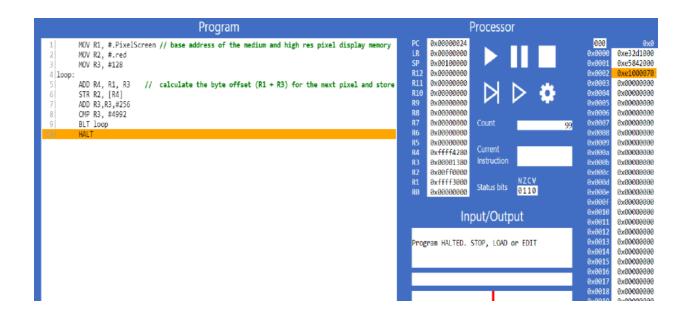
Q9.1.3 (a):

The above code uses indirect addressing since it may store the exact value of R2 in [R4], containing a memory location and its value. In the code, 4 bytes are added to the pixel each time until it reaches 80, and data is moved to the memory location (4 bytes, 32 bits). R1 is the base address; if we add a value in R3, it will be added to R1, which stores the address and may be used to create a new pointer to the subsequent pixel. The above code uses indirect addressing since it may store the exact value of R2 in [R4], containing a memory location and its value. In the code, 4 bytes are added to the pixel each time until it reaches 80, and data is moved to the memory location (4 bytes, 32 bits). R1 is the base address; if we add a value in R3, it will be added to R1, which stores the address and may be used to create a new pointer to the subsequent pixel.

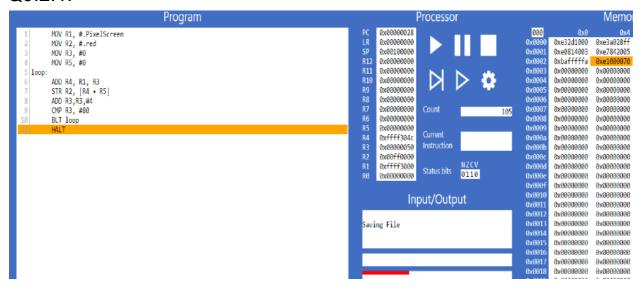
Q9.1.3 (b):



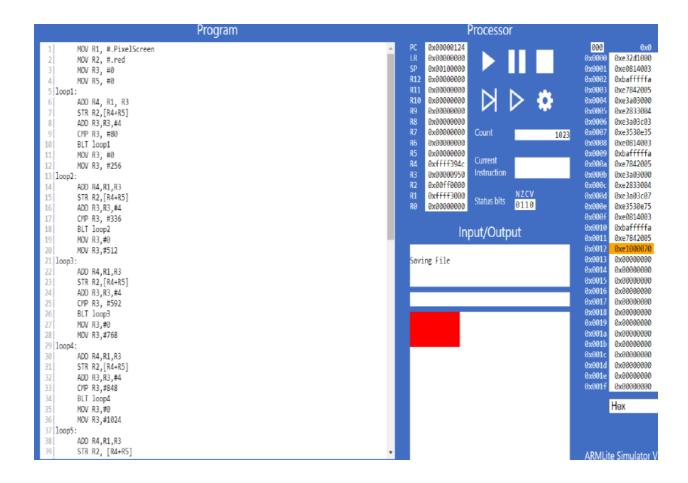
Q9.1.3 (c):



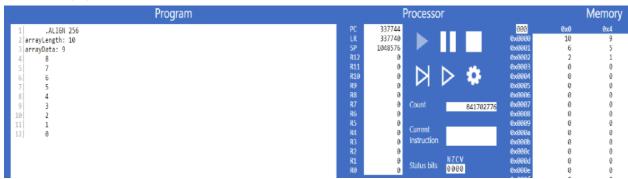
Q9.2.1:



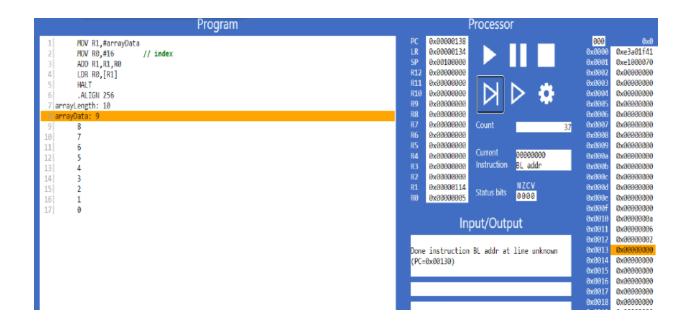
09.2.2:



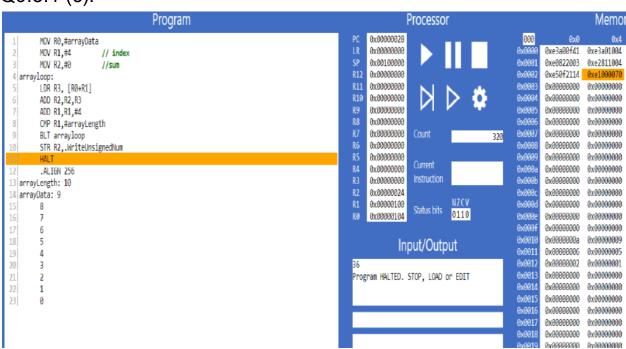
Q9.3.1 (a):



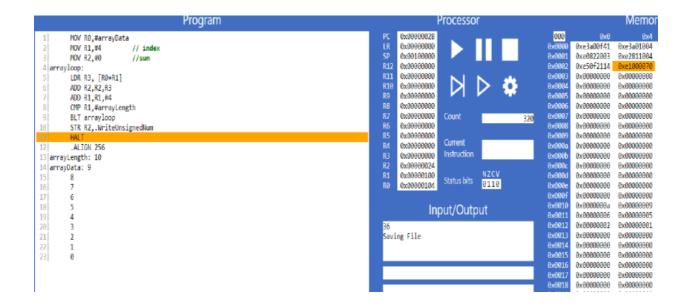
Q9.3.1 (b):



Q9.3.1 (c):



Q9.3.3:



Q9.4.1:



Q9.4.2:

