B103040001 孫世諭

Part1

Question 1

a

Page 0, because it’s R and M are both 0.

b

Page 2, because of earliest page.

c

Page 1, beacause the “last reference” is earliest.

d

Page 0. because it’s R is 0.

Question 2

sort with “Last Reference”(FIFO):
N G H D A L C B
Last Reference: 3 5 7 8 18 19 23 32
R: 1 1 1 0 1 1 0 0
M: 1 1 0 1 1 0 1 0
We can see that ‘D’ page’s R is 0 and it is the first 0, so page D will be replaced.

Question 3

Virtual Address

- limited by the word length in the machine
- points to a virtual store position viewed by a process

Physical Address

- limited by real memory size
- points to a position on a physical memory

Question 4

The only difference of clock and second chance is the details of implementation,
so NO, there are no circumstances in which clock and second chance choose different pages to replace.

Question 5

page0 01101110
page1 01001001
page2 00110111
page3 10001011