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## HOMEWORK #4

제출방법 : 프로그램 코드를 요구하는 프로그래밍을 직접해야 하는 경우를 제외하고 모든 숙제(과제)는 손으로 답안을 작성(워드프로세서, 편집기 사용하지 않음)해야 한다. 제출방법은 제출장소에 마감시간 이전에 직접 제출하거나, 온라인에 제출해야 하는 경우는 손으로 작성한 리포트를 스캔한 파일를 지정한 폴더에 제출한다. Operations, and 10 pop operations, 3 of which generated a Stadt Empty exception that was caught and ignored. What is the current size of 5? (Text Book Exercise No. R-5.3)

A. 25 Men push (a), 10 Men popl). 013 3747 Azyol of \$10.03 Men popl) of Azyold.

What is the current size of 5? (Text Book Exercise No. R-5.3)

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2. Alice has three array-based stacks, A, B, and C, such that A has capacity 100, B has capacity 5, and C has capacity 3. Initially, A is full, and B and C are empty. Unfortunately, the person who programmed the class for those stacks made the push and Pop Sunctions private. The only function Place can use is a static function, transfer (5,T), which transfers (by iteratively applying the private pop and push functions) elements from stack S to stack T until either S becomes empty or T becomes full. So, for example, starting from our initial configuration and performing transfer (A,C) results in A now holding 97 elements and C holding 3. Describe a sequence of transfer operation that starts from the initial configuration and results in B holding 4 elements at the end.

(Text Book Exercise No: C—5.10)

A MIM 8% 95 MRS St, & transfer (A, 8) Abb Al,

A B C of Stet, ONIM C主 transfer (B,C) 笔 都包, B间 2740七

424. 37 A B C of Star. offile transfer (C,A) Aby N,

A B C 1 STEP1, B= CZ 2019 ( tvansfer (B, C))

A B C 2 7 Stet. 0 (cert, Oth) tvansfer (A.B)

High A B C 中 知, 世切む transfer (B, C) High A B C 完 見 中 記4!!

3 억 ((5+2)\*(8-3))/4 毫 postfix notation (神田川)으로 바光 라양 스틱은 사람이 얼덩하고 그 팔라인 神田川 5 2 + 8 3 - \* 4/은 스틱은 여름하여 게산하는 과정은 연당하시오. (Text Book Exercise No: C— 5.8)

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+	((+	5
2	(+)	5 2
	(	5 2 +
*.	(*	52 +
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-		5 2 + 8
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	ANN	5 2 + 8 3 - *
/	/	5 2 + 8 3 -*
4	/	5 2 + 8 3 - *
智工	BAA	52+83-*4

OHUM ARTI

1 Enqueue (49): 7 PM PAP AZION element 37.

山場 index型門型...

- 3 Pequeue (4m): 큐먼 앞쪽의 element 4ml.
- 3 Peck : ने ए ध्या निम्में देशोंके. में Tridex ध्याप्त
- @ front : 部 型 生 和 地
- (B) rear : 祖 앤 뒤 워 밴란
- Describe the adout for the following sequence of queue operations; enqueue (5), enqueue (3), dequeue (1), enqueue (2), enqueue (8), dequeue(), dequeue(), enqueue (9), enqueue (1), dequeue(), enqueue (4), dequeue(), dequeue(), dequeue(), dequeue(), dequeue(), dequeue().

(Text book Exercise No: R-59)

front = rear = -1; 2012+.

0 enqueue (5);

rear += 1
queue [rear] = 5

0 enqueue (3);

rear += 1
queue [rear] = 3

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1

① dequeue();

front += 1
tetum queue [front]

@ enqueque(2);

vear+=1

queue [rear]=2

312

(5) enqueue(8);

rear+=1
queue (rear) =8 3/2 8

(9) dequeue();

front+=1
return queue [front]

(1) dequeue();

front t=1
return queue [front]

@enqueue(9)
reart=1
queue[rear]=9[5]9]

(9) enqueue(1)

Near+=1

queue[rear]=1 [391] (A) dequeue();

Dequeue(1);

reart=1, queue [rear] = 7 9117

(2) enqueue (6);

reart=1, queue [rear] = 6 91116

(3) dequeue();

front+=1, return queue [front] [116]

(3) enqueue (4);

reart=1, queue [rear]=4 [16]4

(4) dequeue();

front+=1, return queue [front] [16]4

(5) dequeue();

front+=1, return queue [front] [16]4

front+=(, return queue(front) [4]