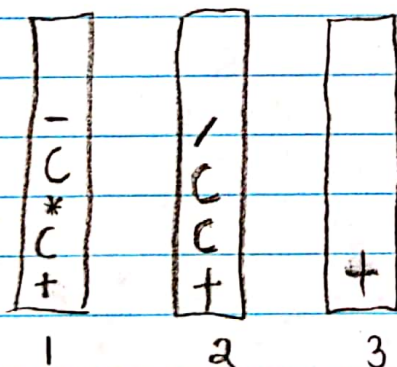


Foundation Exam - Summer 2021 - Section 1A

1. void grow_stack(struct Stack *s, int increase) {
 int *newArray = calloc(s->capacity + (increase), sizeof(int));
 for(int i=0; i<s->top; i++) {
 newArray[i] = s->array[i];
 }
 free(s->array);
 s->array = newArray;
 s->capacity = s->capacity + increase;
}

2. struct node* make_circle(struct node* head) {
 if(head == NULL) return NULL;
~~if(head->next == NULL) {~~
~~head->next = head;~~
~~return head;~~
 struct node* last = head;
 while(last->next != NULL)
 last = last->next;
 last->next = head;
 return head;
}

3.



$$A + (B * (C - D)) + ((E / F) + G) + H$$

Resulting

Post fix expression:

A B C D - * + E F / G + + H +