TI DSP,MCU및 Xilinux Zynq FPGA 프로그래밍 전문가 과정

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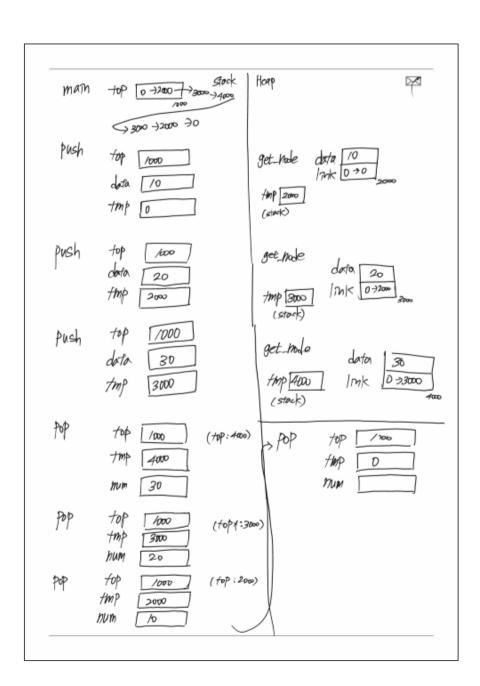
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1. Stack

```
#include(stdio.h)
#include<malloc.h>
#define EMPTY 0
typedef struct node{
int data:
struct node *link;
}Stack;
Stack *get_node(void)
Stack *tmp;
tmp=(Stack*)malloc(sizeof(Stack));
tmp->link=EMPTY;
return tmp;
void push(Stack **top,int data)
Stack *tmp;
tmp=*top;
*top=get node();
(*top)->link=tmp;
(*top)->data=data;
```

```
int pop(Stack **top)
Stack *tmp;
int num;
tmp=*top;
if(*top==EMPTY)
       printf("Stack is EMPTY₩n");
        return 0;
*top=(*top)->link;
num=tmp->data;
free(tmp);
return num;
int main(void)
Stack *top=EMPTY;
push(&top,10);
push(&top,20);
push(&top,30);
printf("%d₩n",pop(&top));
printf("%d₩n",pop(&top));
printf("%d₩n",pop(&top));
printf("%d₩n",pop(&top));
return 0;
```



```
2. queue
#include<malloc.h>
#define EMPTY 0
typedef struct __queue{
       int data;
       struct __queue *link;
}aueue;
queue *get_node(void){
        queue *tmp;
       tmp=(queue*)malloc(sizeof(queue));
       tmp->link=EMPTY;
       return tmp;
void enqueue(queue **head,int data){
       if(*head==EMPTY)
               *head=get_node();
               (*head)->data=data;
               return;
       enqueue(&(*head)->link, data);
void dequeue(queue **head,int i){
       queue *tmp=*head;
       while(tmp)
               if(i==tmp-)data)
                      { tmp=tmp->link;}
               else
                      { printf("%d₩n",tmp->data);
                       tmp=tmp->link; }
```

```
#include(stdio.h)
void print(queue **head){
        queue *tmp=*head;
        while(tmp)
               printf("%d₩n",tmp->data);
               tmp=tmp->link;
int main(void){
       int i=20;
        queue *head=EMPTY;
        enqueue(&head,10);
        enqueue(&head,20);
        enqueue(&head,30);
        print(&head);
        dequeue(&head,i);
       return 0;
```

MOTH head 0-12000		\bowtie
enqueue head 1000 data 1/0	get_hale tmp 2000	data 1/0 2000 2004
enqueue head 1/000		
enqueve ((*hard H)ink: 2004) (*hardH)ink 0 data 20	get_note	data 20 300 /ink 0-24000 30
enqueue head 1000 doita 30 enqueue (béhead) +1 mk : 2004 (4 head) +1 mk 300 data 30	get_hode	data 30 link 0
enque (xhead)->link [p data. [30		
dequeue head [1000] i 20 tmp 2000		