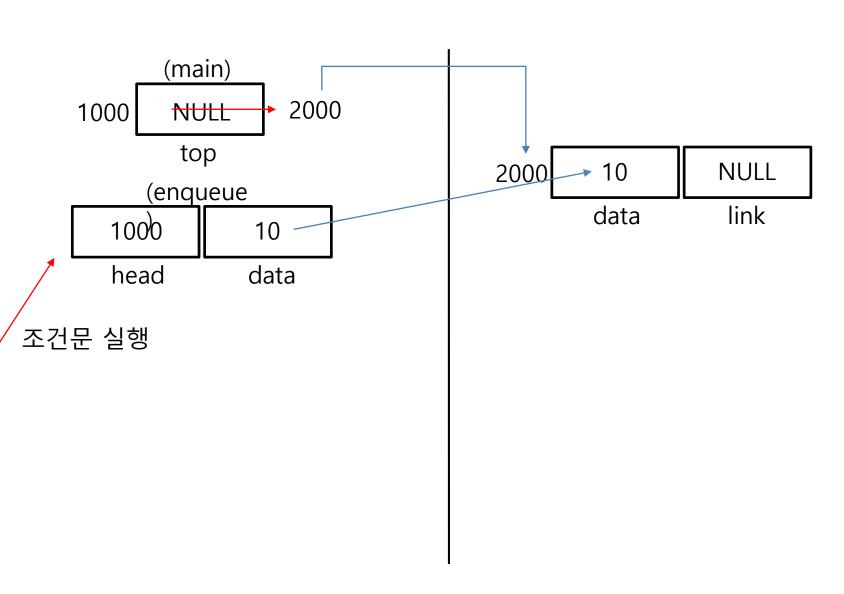
TI DSP, MCU 및 Xilinx Zynq FPGA 프로그래밍 전문가 과정

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연결리스트 예제 그림 그리기

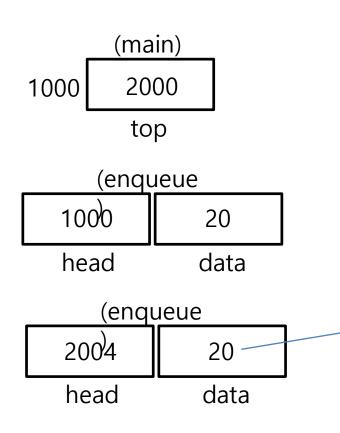
```
int main(void){
    queue *top = NULL;
    enqueue(&top,10);
    enqueue(&top,20);
    enqueue(&top,30);
    print_queue(top);
    dequeue(&top,20);
    print_queue(top);
    return 0;
}
```

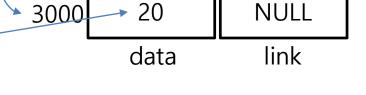
```
#include <stdio.h>
#include <malloc.h>
typedef struct __queue{
        int data;
       struct __queue *link;
}queue;
queue *get_node(){
        queue *tmp;
       tmp = (queue *)malloc(sizeof(queue));
       tmp -> link = NULL;
       return tmp;
void enqueue(queue **head.int data){
       if(*head == NULL){
                *head = get_node();
               (*head)->data=data;
               return;
       enqueue(&(*head)->link,data);
       //printf("aaa");
```



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                return;
        enqueue(&(*head)->link.data):
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```





10

data

2000

NULL 3000

link

2004

재귀호출

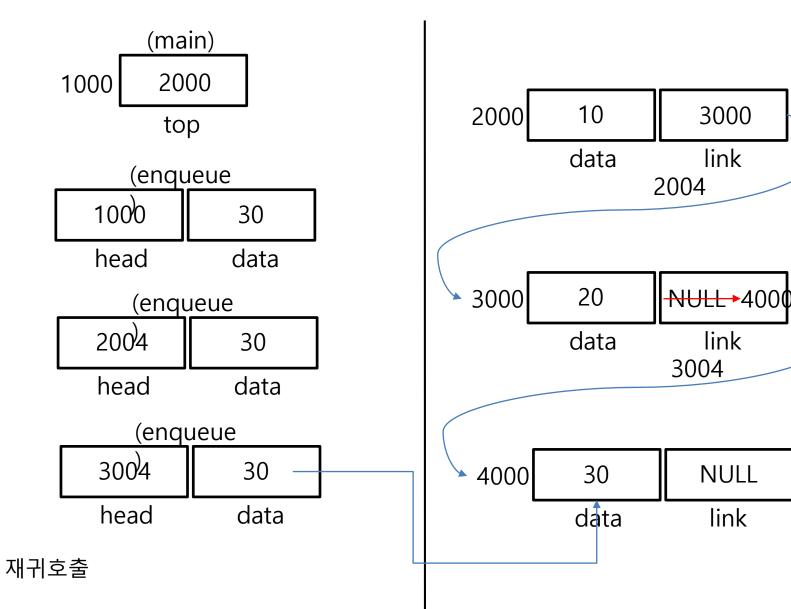
```
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    enqueue(&top,10);
    enqueue(&top.20);
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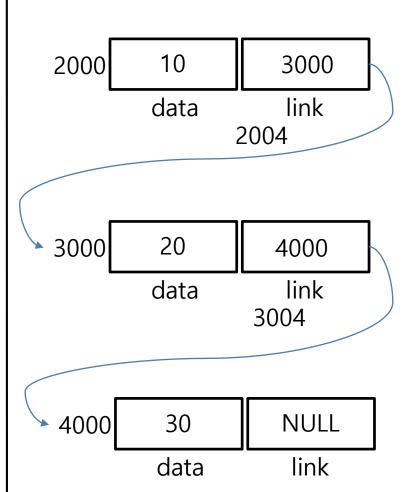
```
(main)
1000 2000
top

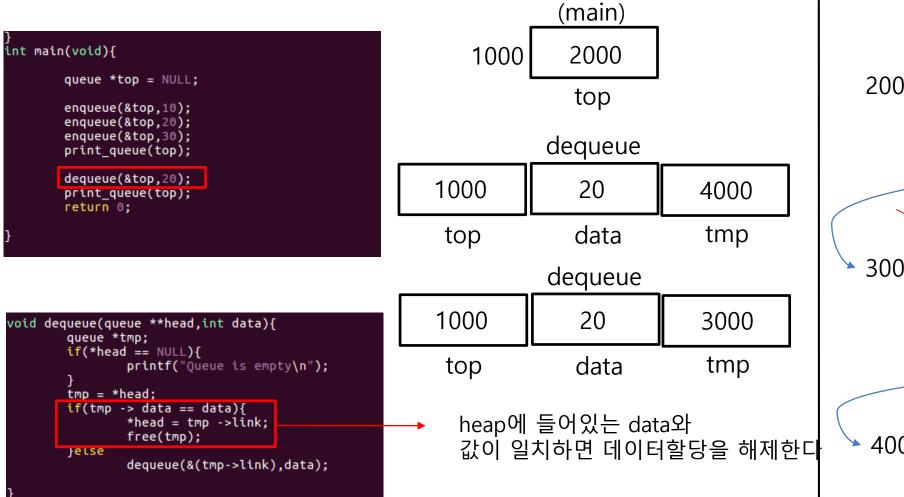
print_queue

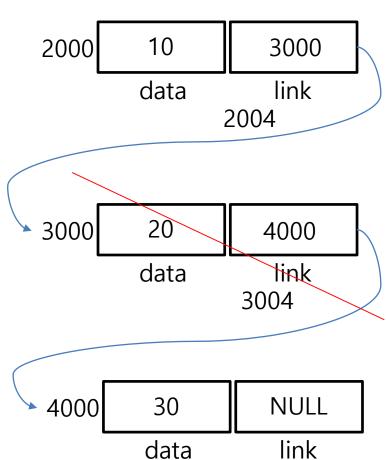
1000 1000
head tmp
```

링크를 따라가며 값을 찍는다









```
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    queue *top = NULL;
    enqueue(&top,10);
    enqueue(&top,20);
    enqueue(&top,30);
    print_queue(top);

    deaueue(&top.20):
    print_queue(top);
    return 0;
}
```

```
(main)
1000 2000
top
print_queue
1000 1000
head tmp
```

```
void print_queue(queue *head){
    queue *tmp = head;
    while(tmp){
        printf("%d\n".tmp->data);
        tmp = tmp->link;
}
```

링크를 따라가며 값을 찍는다



