TI DSP, MCU 및 Xilinx Zynq FPGA 프로그래밍 전문가 과정

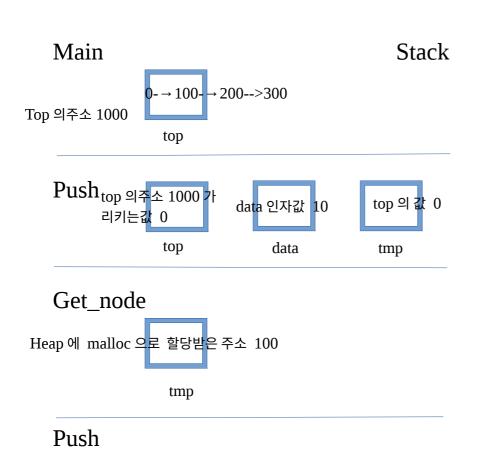
2018.03.02 5 일차 강사 – Innova Lee(이상훈) gcccompil3r@gmail.com

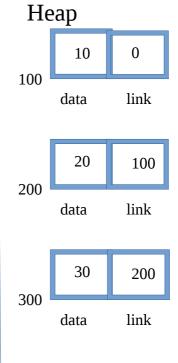
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Stack 연결리스트

```
#include<stdio.h>
#include<malloc.h>
#include<stdlib.h>
#define EMPTY 0
struct node{
    int data;
    struct node *link;
};
typedef struct node Stack;
Stack *get_node()
     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)->data = data;
     (*top)->link = tmp;
}
int pop(Stack **top)
     Stack *tmp;
     int num;
    tmp = *top;
    if(*top == EMPTY)
     {
         printf("Stack is empty!!!\n");
         return 0;
     }
     num = tmp->data;
     *top = (*top)->link;
     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;
}
```





Get_node

top 의주소 1000

top

가리키는값 100

Push



data 인자값 20

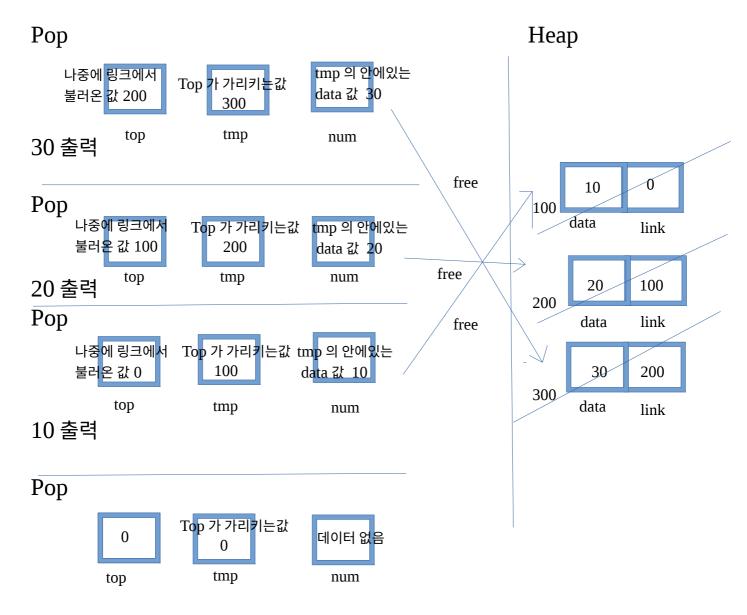
data

top 의 값 100

tmp

Get_node





Stack is empty!!!출력하고 0 출력