Xilinx Zynq FPGA, TI DSP, MCU 기반의 프로그래밍 및 회로 설계 전문가 과정

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01

10일차 내용 복습 (tree)

Terminal

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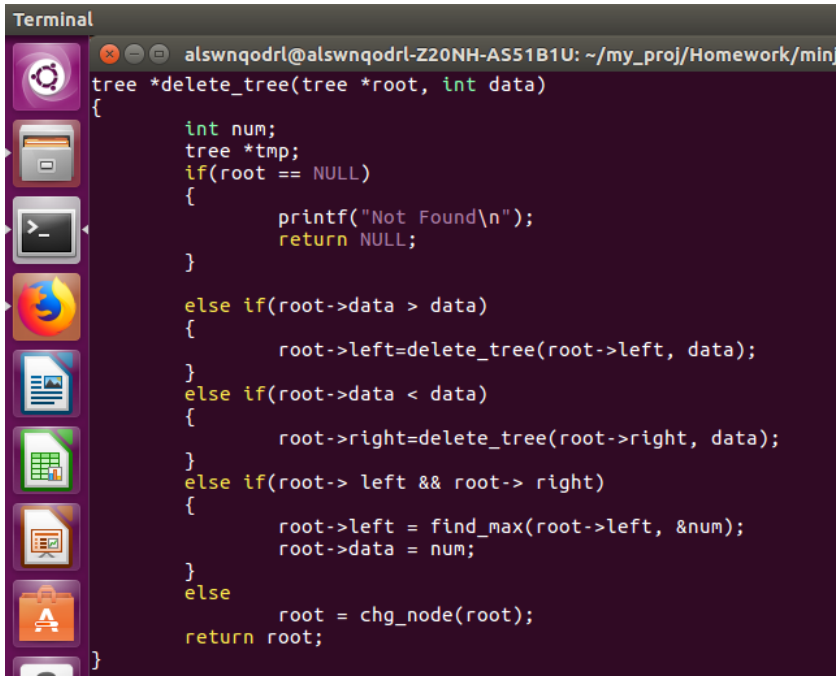
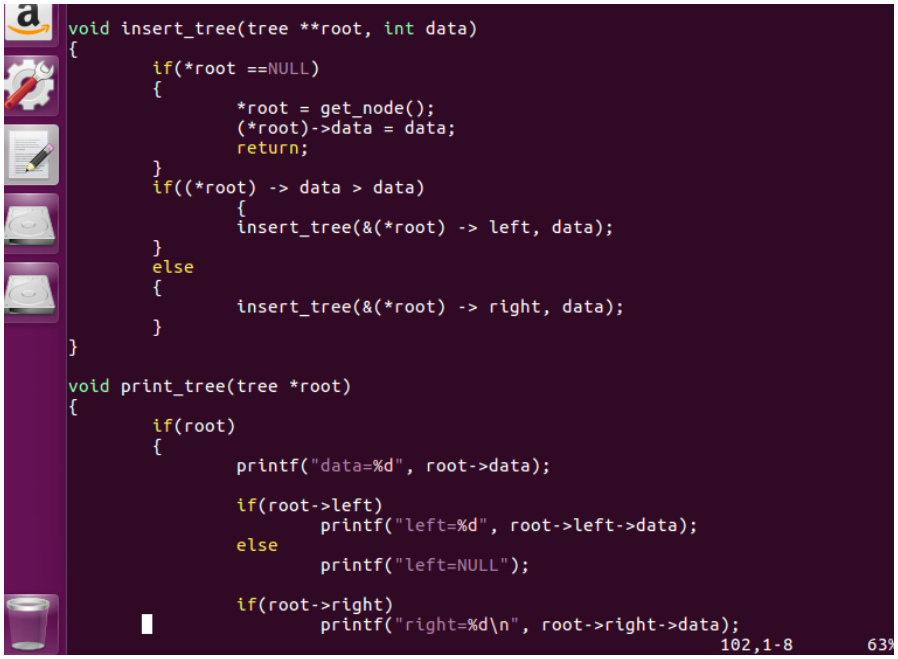
```c
#include <stdio.h>
#include <malloc.h>
#include <stdlib.h>
#include <time.h>
#define EMPTY 0

typedef struct __tree
{
        int data;
        struct __tree *left;
        struct __tree *right;
}tree;

tree *get_node()
{
        tree *tmp;
        tmp=(tree*)malloc(sizeof(tree));
        tmp->left=EMPTY;
        tmp->right=EMPTY;
        return tmp;
}

tree *chg_node(tree *root)
{
        if(!root->left)
                return root->right;
        if(!root->right)
                return root->left;

}
```

```c
tree *find_max(tree *root, int *data)
{
        if(root->right)
                root-> right = find_max(root->right, data);
        else
        {
                *data = root->data;
                root = chg_node(root);
        }
        return root;
}

tree *delete_tree(tree *root, int data)
{
        int num;
        tree *tmp;
        if(root == NULL)
        {
                printf("Not Found\n");
                return NULL;
        }

        else if(root->data > data)
        {
                root->left=delete_tree(root->left, data);
        }
        else if(root->data < data)
        {
```

01

10일차 내용 복습 (tree)





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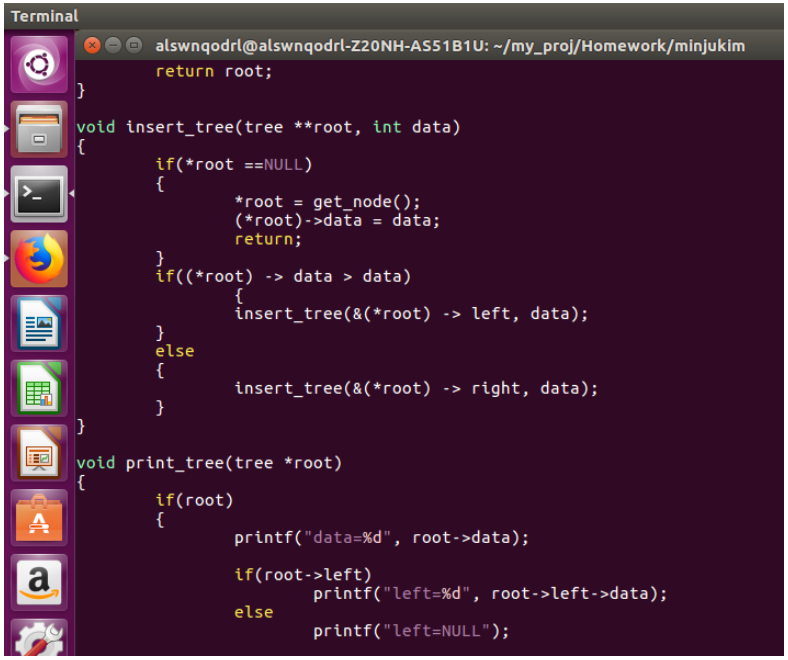
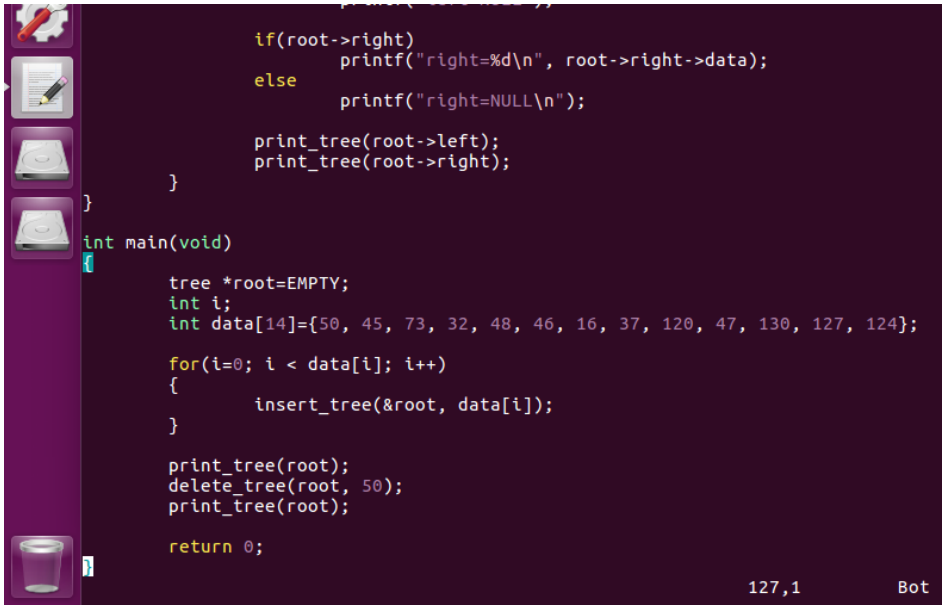
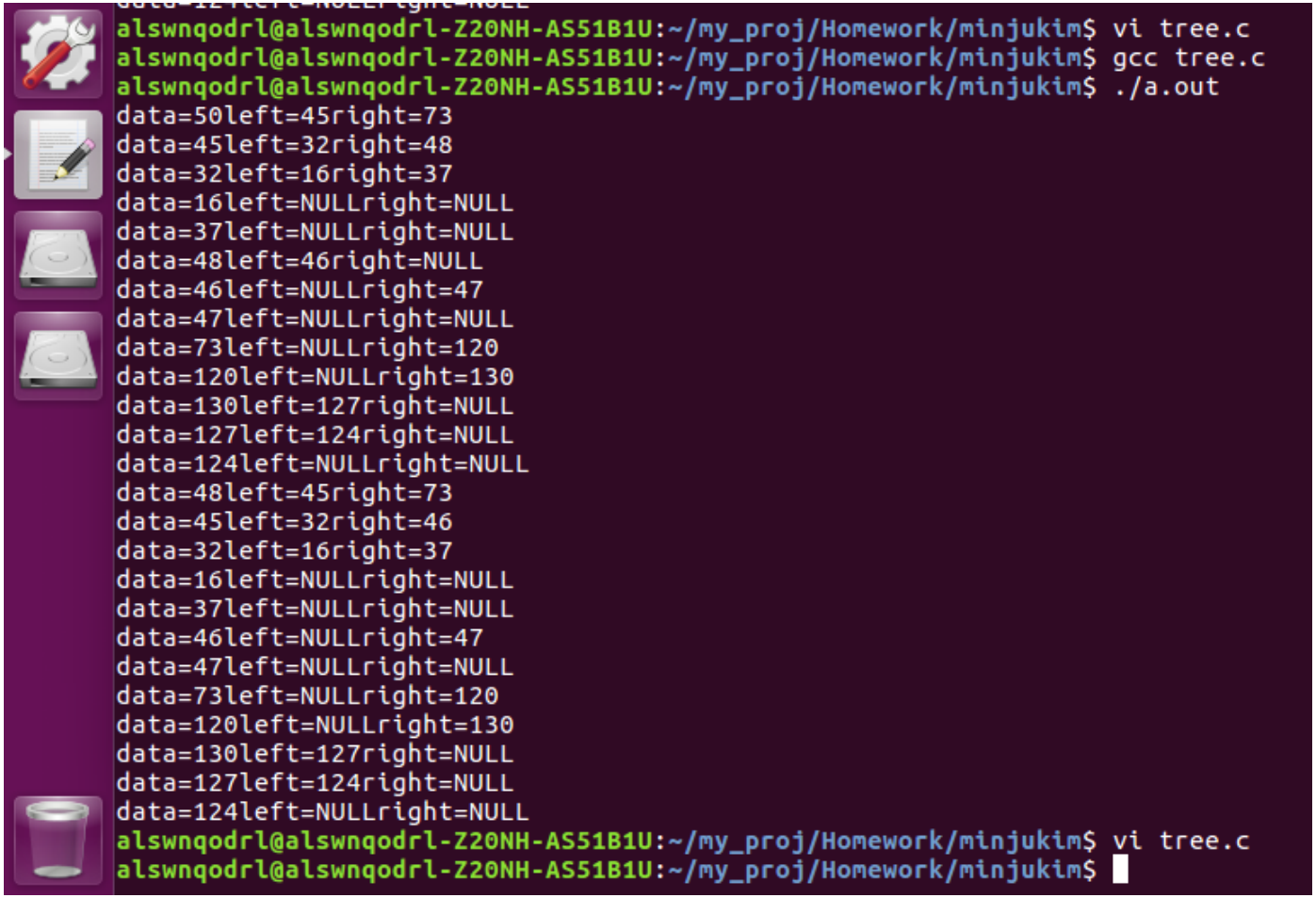
10일차 내용 복습 (tree)





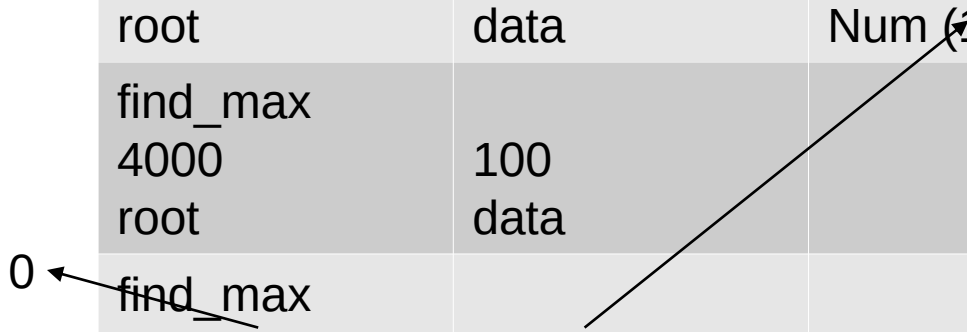
01

10일차 내용 복습 (tree)

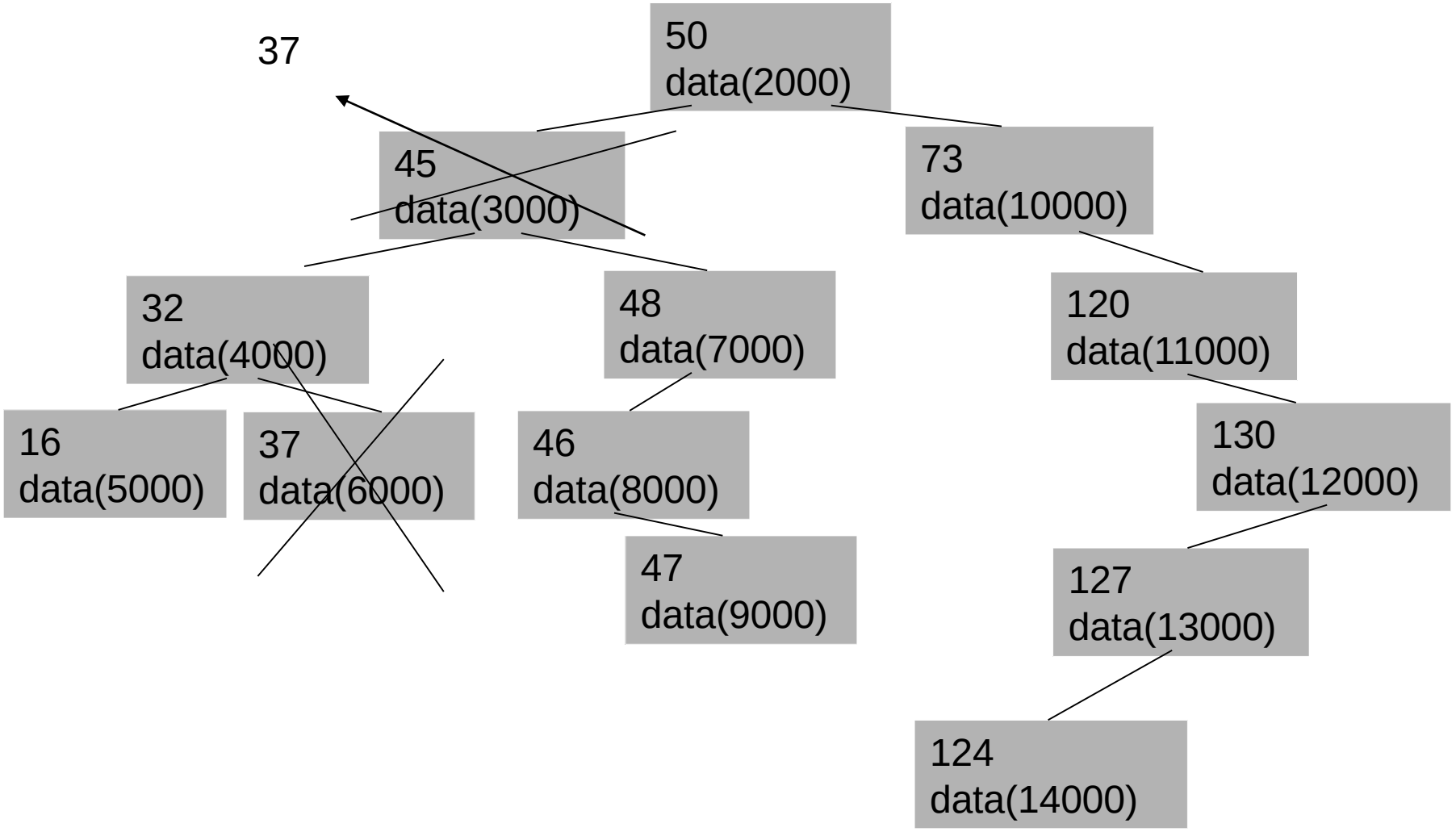


10일차 내용 복습 – 그림그리기 (tree 45 delete)

Main 2000 Root (1000)		
delete_tree 2000 root	45 data	Num
delete_tree 3000 root	45 data	37 Num (100)
find_max 4000 root	100 data	
find_max 6000 root	100 data	
chg_node 0 root		

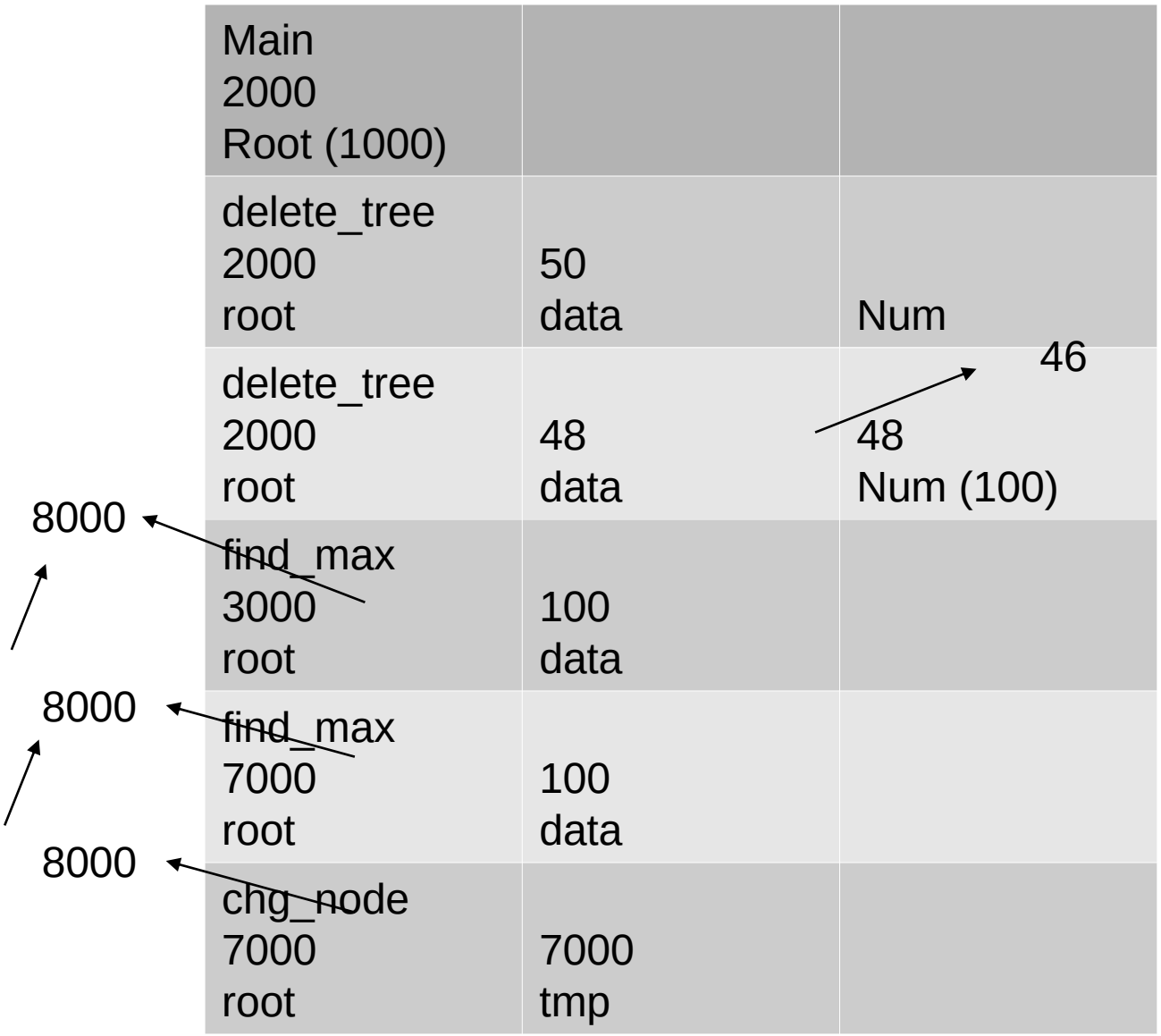


10일차 내용 복습 – 그림그리기 (tree 45 delete)



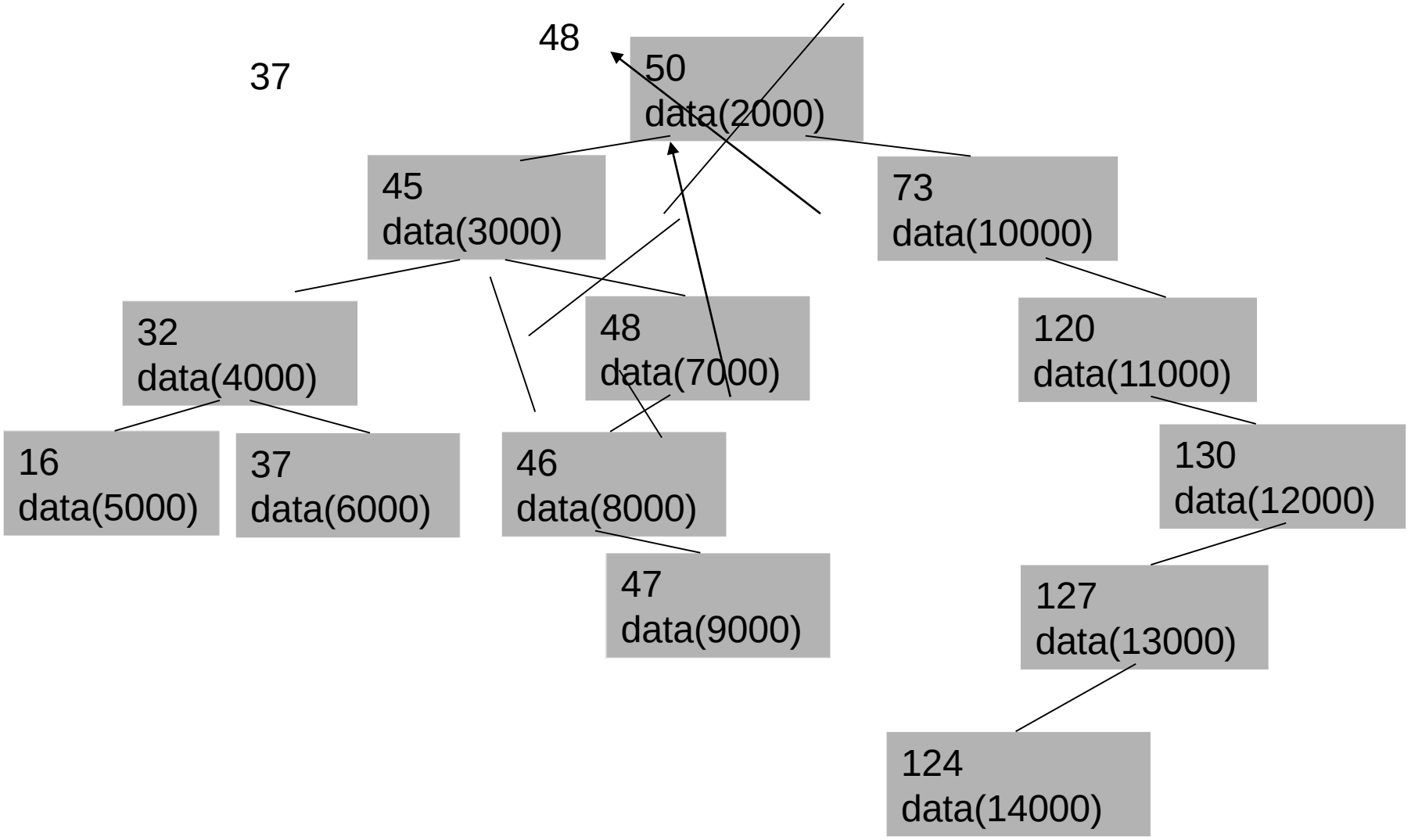
03

10일차 내용 복습 – 그림그리기 (tree 50 delete)



03

10일차 내용 복습 – 그림그리기 (tree 50 delete)



04

10일차 내용 복습 – 그림그리기 (tree 127 delete)

Main 2000 Root (1000)		
delete_tree 2000 root	127 data	Num
delete_tree 10000 root	127 data	Num (100)
delete_tree 11000 root	127 data	
delete_tree 12000 root	127 data	
chg_node 13000 root	13000 tmp	

14000

13000

14000

04

10일차 내용 복습 – 그림그리기 (tree 127 delete)