2K20/CO/072 Ankit Kumar

Q1.

void **decrease**(int a[], int n, int i, int d) {

    a[i] -= d;

    while (i > 0) {

        int parent = (i - 1) / 2;

        if (a[i] < a[parent]) {

            int temp = a[i];

            a[i] = a[parent];

            a[parent] = temp;

            i = parent;

        } else {

            break;

        }

    }

}

------------------------------------------------------------------------------------------------

Q2.

i). d, f

ii). d, f

iii). a,b,d,e,f

------------------------------------------------------------------------------------------------

Q3.

int **nonLeafNodes**(struct **node** \*newnode) {

    int cnt = 0;

    if (newnode != NULL) {

**nonLeafNodes**(newnode->left);

        if ((newnode->left != NULL) || (newnode->right != NULL)) {

            cnt++;

        }

**nonLeafNodes**(newnode->right);

    }

    return cnt;

}

------------------------------------------------------------------------------------------------

4th on next page

Q4.

