```c
#include <stdio.h>

#include <stdlib.h>

#include <string.h>


typedef struct tree *pohon;


struct tree{

    char info;

    pohon kiri;

    pohon kanan;

};


pohon baru(char hrf)

{

    pohon br;

    br=(pohon)malloc(sizeof(struct tree));

    br->info=hrf;

    br->kiri=NULL;

    br->kanan=NULL;

    return (br);

}


void sisip (pohon ph, pohon sp)

{

    pohon P,Q;

    P = ph;

    Q = ph;
```

```c
        while((sp->info != ph->info)&&(Q!=NULL))

        {

                P = Q;

                if (sp->info < P->info)

                        Q = P->kiri;

                else

                        Q = P->kanan;

        }

        if(sp->info == P->info)

                printf("Sudah ada");

        else

                if(sp->info < P->info)

                        P->kiri=sp;

                else

                        P->kanan=sp;

}


void preorder(pohon ph)

{

        if (ph != NULL)

        {

                printf("%c ", ph->info);

                preorder(ph->kiri);

                preorder(ph->kanan);

        }

}
```

```c
void inorder(pohon ph)
{
    if (ph != NULL)
    {
        inorder(ph->kiri);
        printf("%c ", ph->info);
        inorder(ph->kanan);
    }
}


void postorder(pohon ph)
{
    if (ph != NULL)
    {
        postorder(ph->kiri);
        postorder(ph->kanan);
        printf("%c ", ph->info);
    }
}


main()
{
    int j=0;char input,jawab[2];
    pohon br, ssp;
    while(1)
    {
        printf("Ketikkan huruf :");scanf("%c",&input);
```

```c
        fflush(stdin);

        if (j==0) br = baru(input);

        else

        {

            ssp = baru(input);

            sisip(br,ssp);

        }

        printf("Ada data lagi(y/t):"); scanf("%s",&jawab);

        fflush(stdin);


        if((strcmp(jawab,"Y")==0)||(strcmp(jawab,"y")==0))

        {

            j++;continue;

        }
    else if ((strcmp(jawab,"T")==0)||(strcmp(jawab,"t")==0))

            break;

    }

    preorder(br); printf("\n");

    inorder(br); printf("\n");

    postorder(br);

}
```