```
#include<stdio.h>
#include<stdlib.h>
typedef struct SET
{
 float nr[10];
 float dr[10];
 int n;
}fuzzy;

fuzzy *getval(fuzzy *m,int ch,char *x)
{
 int i;
 float f,g;
 m=(fuzzy*)malloc(sizeof(fuzzy*));
 m->n=ch;
 printf("\n enter the set %s",x);
 for(i=0;i<m->n;i++)
 {
  printf("numerator element %d",i+1);
  scanf("%f",&f);
    m->nr[i]=f;
  printf("denominator element %d",i+1);
  scanf("%f",&g);
  m->dr[i]=g;
 }
 return(m);
}

void printval(fuzzy *m,char *x)
{
 int i;
 float f;
 printf("\n The set %s=(",x);
 for(i=0;i<m->n;i++)
 {
  printf("%6.1f / %6.1f",m->nr[i],m->dr[i]);
  if(i!=m->n-1)
   printf(",");
 }
 printf(")");
}


void lambda_cut_set(fuzzy *a,float L)
{
 fuzzy *temp;
 temp=(fuzzy*)malloc(sizeof(fuzzy*));
 int i;
 temp->n=a->n;
 for(i=0;i<a->n;i++)
 {
    if(a->nr[i]>L)
    {
        temp->nr[i]=a->nr[i];
        temp->dr[i]=a->dr[i];
```

```
        printf("{(%6.1f,1) \t ",temp->dr[i]);
    }
  else
        printf("{(%6.1f,0) \t ",temp->dr[i]);
 }
 printf("}");
}

void main()
{
 fuzzy *a=NULL;
 fuzzy *b=NULL;
 int c;
    float L;
 printf("\n enter the no.of components");
 scanf("%d",&c);
 a=getval(a,c,"A");
 printval(a,"A");
 printf("\n enter the value for lambda");
 scanf("%f",&L);
 lambda_cut_set(a,L);
}
```