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Polynomial Addition

Code Id 28

Date Updated 3/7/2010

Title Polynomial addition

Description

This program uses linked list to add two polynomials.

Codes Snippet

```
#include
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void create (struct node **);
void add_node (struct node **, int, int);
void dis\overline{p}lay (struct node *);
struct node (int coef, int deg, struct node *link);
void addpoly (struct node *, struct node *, struct node **);
main()
struct node *list = NULL, *list2 = NULL, *flist = NULL;
printf(@ttProgram to add two polynomialsnn@);
printf(@Enter the first list n@);
create(&list1);
printf(@nEnter the second list n@);
create(&list2);
addpoly(list1,list2,&flist);
printf(@n The resultant polynomial is : n@);
display(flist);
return 0:
void create(struct node **list)
         int degree, coeff;
         char ch;
         do
          {
                   printf(@nEnter the degree of x:@);
                   scanf(0%d0,&degree);
                   printf(@nEnter its coefficient@);
                   scanf(0%d0,&coeff);
                   add node(list,degree,coeff);
                   printf(@nDo you want to add some other term[y/n]:@);
                   fflush(stdin);
                   scanf(0%c0,&ch);
         }while(ch==@y@);
         printf(On The list created is :O);
display(*list);
void add_node ( struct node **list, int degr, int coef)
          struct node *p, *q, *newr;
          p=*list;
          q=p;
         while(p != NULL \&\& (p->deg > degr))
                   p=p->link;
         newr = (struct node *) malloc (sizeof (struct node));
         newr->deg=degr;
         newr->coeff=coef;
         if (q==NULL)
          {
                   *list=newr;
                   newr->link=NULL;
         }
          else
                   if (q!=p)
```

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                   printf(@%dx ^ %d@, list->coef,list->deg);
                   list = list->link;
          printf(@%d x ^ %d@, list->coef, list->deg);
 void addpoly(struct node *p1, struct node *p2, struct node **p3)
          while(p1!=NULL && p2 != NULL)
                   if(p1->deg > p2->deg)
                            add_node(p3,p1->deg,p1->coef);
p1= p1-> link;
                   else if(p1->deg < p2->deg)
                            add_node(p3,p2->deg,p2->coef);
p2= p2-> link;
                   }
                   else
                            if((p1->coef+p2->coef)!=0)
                            add_node(p3,p1->deg,(p1->coef+p2->coef));
                   p1=p1->link;
                   p2=p2->link;
          }
 }
          if (p1==NULL)
                   while(p2 != NULL)
                            add_node(p3,p2->deg,p2->coef);
p2=p2->link;
 }
          }
 else
          while(p1!=NULL)
                            add_node(p3,p1->deg,p1->coef);
                            p1=\overline{p}1->link;
          }
 }
```

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