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112/2000
Addition of two polynomials -
 Hordwde Zstatio, hy
  Hordwde 28tdlib.h7
 producte & math. hy
  struct node &
        float of;
        float px;
        float pry;
         ont flag;
         Struct node " lank;
       y;
       typedel struct node * MODE;
       MODE getnode ()
         MODE X;
         X2 (NODE) malloc (seze of (struct node));
         & (x==MULL)
            pront ("aut of memory");
             exet (o);
         Return X;
         MODE Orset-real (float of, float x, float y, MODE nead)
           more temp, we;
           temp=getnode();
           temp=> g=g;
           temp->px=x;
```

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temp-7 flag =0;
cue = head ->lonk;
 loude (au -> lork /= head)
 m= m-> lonk;
  (us + lone = temp;
   temp->lonk 2 hard;
   letur head;
MODE read-poly (MODE head)?
   Out i;
  float of , px 112y;
  pront (" Enter the conficient as - 999 to end the polynomial ) n' ).
   for ( = 2;; E++) &
   pronty (" enter the 1.d teem nn, E);
    peorts (" coeff : In");
     & (g==-999)
      break;
      pronte ( "powx: In");
      Scanf (41, & n, 8px);
       pronty (" pow y: In");
       Scanf ( " 1. 8", 8py);
        head = Orset-real of, px, py, head);
      Return head;
       nold duplay (MODE nead) {
        MODE temp;
        y (nead -> work = = head)
         prenty (" paymonial does not exist (nn);
          Return;
```

```
temp = head -7191k;
   while ( temp! head)
   provid ("1.5, 88x 1/1.3.1 fy 1.1.3.1 flt", temp-> of, temp->px, temp->py),
     temp=temp-yout;
   part ("In");
   NWDE add-poly (MODE HI, MODE HI, MODE HI) &
    MODE P2,172)
     ont x2, x2, y2, cf1, d2, d;
     p1= h1-ycant;
     white (p1 != h1) {
       1= p1->px;
        y1= p1-7py;
        41- p1-74;
        pa=ha-ylonk;
        whole [par=na)
        nd=p2->px,
        40= bo-2ba,
        do=10-2d;
        y (n1== n2 $1py12=y2)
         120 p2->101E;
        9 (pa) = ha) 8
          9=92+92;
           p2-> flag = 1;
           h3 - Owest - read (d, n1, y 1, h3);
          y
           else
          h3= anent_rea (d1, n1, y1, 100);
4
          p1 - p1 -> cont;
```

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pa=ha-ylank;
while (pala ha)
  g (p2-7/10g 20)
   £
    13= Queet-reac(pa-ry, pa-rpx, pa-rpy, 43).
     Pa=pa->lane;
     Retain h3;
   ort main ()
   MODE no, ha, no;
    h12 getnode();
    ha = getriode();
     h3, getnode();
      11-7 Conk=11;
      ha->lak > ha;
      h3-460Ne = h3;
       pronte ("Enter the first polynomial ) n").
       n1= read - pay ('ns);
       peont ( "luter the second paymonisal mm).
        has read-poy(ha);
        n3 = add-poly (no, ha, n3);
         pront (" the first polynomial In");
         display (hs);
         prontif ( " the second polynomial (nn);
         desplay (na);
          pronts (" the sund the paynomials (n")-
           display (n3);
          Return o;
```

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of anawation of polynomial?
  Hondwale & Stello, my
  porchale & Stilleb. 12
  Hindual Zmath, hy
  struct node
     froat q;
     froat px;
    Smut nocle & lonk,"
    3;
    typedel struct mode & MODE;
    MODE getrode ()
      MODE X;
       x = [MODE) malloc (street (structuocle));
       if (x=nwil)
        prentf ( " Merusey full (n");
        exet (0);
       Return X;
      MODE ment-real (float of, floatx) float y, mode first)
        MODE temp, We;
        terry=getnocle();
        terup-rd=qs
        ferry -> px = x;
         terrys->conk = Mull;
           Octuen temp;
         y
         we fist;
         white (m->lank!= nww)
         cue->lone = temp;
         letuun
```

```
NODE read-poly(NODE first)
    Int i;
   float of, px, py;
    Montfile Enter-999 to end the polynomeal: \n");
     for (2 2 1; i+t)
      pront (" Enter 1.d tam: 1mm, i);
       pronty 1" Cafficient 1\n");
       scary (4.1.8 h Rd);
       U, (d, == -999)
           breat;
         3
        peonly (" Power of x:)");
        Scanf ( 4.1. & 7 $ px);
         prentf ( 4 Power of y: m");
         scary ( 4.1.5 ", 8 py)
        Return forst
          froat x, y, sum= 0;
           MODE polynomial;
          postf ( " arter the value of x andy : In");
          polynomial 2 forst.
          whele ( polynomia) / 2 Mose)
         2
             Sum = Sumt polynomical -> of & pow (x, polynamical -> px)
                    > powl 4, polywowal->py).
              y
```