```
18-11-24
    Singly Linked List
  #include < stdiah>
  #include < stalib. h>
    Steuct node
       Struct node * link;
    typedel struct mode * NODE;
      NODE getnode()
        NODE X
       X = (NODE) malloc (Sized (Structnode);
       16 (x = = NULL)
         print ("memory full m");
         expt(0);
       void preenade (NODE x) &
            insent-front (NODE first, intitem)
          NODE temp;
           temp = getnodel),
           temp > into = itemp;
           temp-> link = NULL;
```

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tall bedress we
if [first = = NULL)
  return temp;
temp > link = first;
  first = temp;
return first i
NODE dete Inserterear (NODE first, int item)
    NODE temps curi;
     temp = getnode();
     temp > into = item i
     temp > link = NULL,
     if ( first = = NULL)
          return temp',
      while (cur > link!= NULL)
     cur = first,
         Ecur = cur > link,
         'aur -> une = temp;
         2 section first;
 void display (NODE first)
      if ( first == NULL)
    print (" list is empty cannot delete Hemsla",
    bon (temp = first; temp! = NULL; temp= temp> lit
      Eprint ("1.din", temp singo),
```

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(nt main()
    int item, unoicelli,
     NODE first = NULL',
  for (', ')
 print (" In1. Insert front In2. Insert rearin3. Display
         Inu. exit \nu);
 print (" Enter the choice (n");
 Scanf ("1.d", & choice);
 Switch (choice)
 Case 1: print ("Enter the item at front-end \n");
          Scary (" ofod", kitem) i
          first = insert-front (first, item);
  Case 2: print (" Enter the item at the great-endly)
           break;
           Scary ("1.2", & Hem);
           first: insert_rear (first, Hem);
            break,
    Case 3: display(first),
            break,
    case 4:
    default: exit (0);
     233 break;
```