Q.

Endude < bits/stdc++h>

clan Node of

public:

int data; Node* next;

Node (int data)

data = 2; next = NULL;

Node * cm = new Node (2);

cus + deta next = head;

head = cus; refur head;

Node* add Lists (Node* 11, Node* 12)

if (ll == NULL) return l2;

if (l2 == NULL) return l1;

stack < lat > sl, 32, 53;

Node* temp = l1;

while (temp! = NULL)

stopsh (temp = data); temp = temp-, next.

temp = 12;

temp = 12;

2. puts (temp = NOLL);

temp = temp + next;

Port sum= 0; corag= 0, value, val 27

```
while (15 1. empty) xx 1,52. empty1)
            val = s1-pop(); vale = s2-pop();
            dun = ( vall + val 2 + only ) -1.10;
             (any = ( wil + rol 2+ oarry ) / 10;
             53. push ( sum );
    while (151. empty ())
               vall = s1. pap();
                Suy = (vall + ary) "/. 10;
                oury = (val 1+ carry) 110;
                 53. pash ( sum );
     while ( 152. empty ())
            val 2 = 52. pap #;
             Sun: (12+ overy) 1/10; any = (val 2+ overy) 1 to;
              83. push ( sum);
       if ( ovay > 0) 03. Just ( ovay );
not main () of
        Node * head = new Node (); head 2= NULL;
        int fixt () = { 7, 9, 9, 1 }; int n= size of (first)
        it second () - 1 9, 8, 13; int m = size of (second).
       for ( 1= 60 (1-0,1--)
                  pun ( & head 1 ; fint [i]).
        for ( i2 m-1; 1>20, i--)
                   pun ( h had 2 , sweed [i]);
             print list ( add List ( head 1, head 2);
```

```
# include (bitstd.c++. 47 using namespece std;
        long power (long a, long b)
             of (b=20) sehun 1;
              lay xs - pewer (a, b/2);
              if (6%2) sehun xxxxxxxx;
              ela rehun sas * x4;
   > (1 min to)
             hat long x = 3;
                 lang y = 5;
               coul ex power (x,y);
23 int partition ( int 9 CJ, int law, int high )
          int pirot, index, i;
index = low, pirot = high;
          for (izlow; Ochigh; itt)
                 if ( aci) < a ( pivot ) )
                        swap ( acid, a (index ]);
                        Endex + +;
          suap (algirat), a livolex);
         netwn index;
  int quick sout (int all, int low, int trigh)
         int pindex;
         if ( low thigh)
                  pindex = position ( + tow, high);
                  outtract ( a, low, pinder - 1);
         return 0, Buicksont (a, pindex+1, high);
```

Algorithm:

1) pick seed first element as pivot.

2) pool partition array.

2) (low a right) (

partition index, calculate.

quicksort (arr, low, pi-1);

quicksort (arr, pi+1, high);

3

It is duide & congler algorithm. It picks an element as pinot and partitions the given array around the picked pivot. I