```
Program Pesign HW8
                                                                    if (head > data % 2 == 1) {
 # include 4stdio.h>
                                                                        append (oddlist, head > data);
# include <stalib.h>
typedet struct Node {
                                                                       append (evenlist, head > data);
    int data;
    struct Node" next;
                                                                    head = head > next;
J Node;
Node" create Node (int data) {
    Node newNode = (Node*) malloc(size of (Node));
                                                            void printList (Node* head) {
                                                                while (head != NULL) {
    newNode > data = data;
                                                                    print ("%d >" head > data);
    newhode > next = NULL;
                                                                   head = head > next;
   return New Node;
                                                                printf ("NULL\n");
void append (Node** head, int data) {
     Node* newNode = createNode (data);
                                                            int main () {
     if ( *head == NULL) {
       *head = newNode;
                                                                Node* head = NULL;
                                                                Node* oddList = NULL;
       return;
                                                                Node* evenList = NULL;
     Node temp = "head;
     while (temp= next != NULL) {
                                                                append ( & head, 1);
         temp = temp > next;
                                                                oppend ( Shead, 3);
                                                                 append (Shead, 2);
      temp > next = new Node;
                                                                 append ( Shead, 4);
                                                                 split List Chead, Rodd List, Seven List);
                                                                 printf ("Odd value list: ");
void splitlist (Node* head, Node** odd List, Node** even List) {
     while (head != NULL) {
                                                                 printList (odd List);
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printf ("Even value list:"); print List (even list);

return 0;

11 output:

1/ Odd value list: 1 > 3 > NULL

// Even value list: 2 > 4 > NULL

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