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C Untitled.c ×
C Untitled-1.c
#include<stdio.h>
      #include<stdlib.h>
      struct node{
         int data;
         struct node*next;
      struct node*front:
     struct node*rear;
     void push(struct node**top,int d) {
 11
 12
         struct node*temp,n;
 13
 14
         temp = (struct node*)malloc(sizeof(struct node));
 15
         if(temp == NULL) {
             printf("Stack is full\n");
 17
 18
 19
 20
         temp->data = d;
         temp->next = *top;
 21
         *top = temp;
 22
         printf("%d is pushed\n",d);
 23
 24
 25
     void pop(struct node**top) {
         struct node*temp;
 27
 29
         if(*top==NULL) {
 30
             printf("Stack Underflow\n");
 31
             return;
 32
 33
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Untitled.c X
> dhruvam02 > OneDrive > Desktop > C Untitled.c >  main()
       princt( Scack Undertion(H );
       return:
  temp = *top;
  printf("%d poped\n",temp->data);
  *top = (*top)->next;
  free(temp);
oid display(struct node* top) {
  if(top == NULL){
       printf("No Elements Present in Stack\n");
       return;
   while(top!=NULL) {
       printf("%d ",top->data);
       top = top->next;
   printf("\n");
/oid insert(int d) {
   struct node*n;
   n = (struct node*)malloc(sizeof(struct node));
  if(n == NULL){
       printf("Queue Overflow\n");
       return;
   n->data = d;
   if(front==NULL) {
        front = n;
```

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■ Untitled.c ×
> dhruvam02 > OneDrive > Desktop > C Untitled.c >  main()
       front = n;
       rear = n;
       front->next = NULL;
      rear->next = NULL;
   else {
       rear->next = n;
       rear = n;
       rear->next = NULL;
   printf("%d is inserted\n",d);
oid delete() {
  struct node*temp;
  if(front == NULL) {
       printf("Queue Underflow\n");
       return;
  temp = front;
  printf("%d deleted\n",temp->data);
  front = front->next;
  free(temp);
oid display_queue() {
 struct node *temp;
  temp = front;
  if(front == NULL)
       printf("\nEmpty queue\n");
```

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sers > dhruvam02 > OneDrive > Desktop > C Untitled.c > 😚 main()
      else
          printf("\nQueue Elements: \n");
         while(temp != NULL)
              printf("%d ",temp -> data);
              temp = temp -> next;
          printf("\n");
 int main() {
      struct node*stack = NULL;
      printf("STACK OPERATIONS\n");
      printf("1.Push\t2.Pop\t3.Display\t4.Exit\n");
      int choice, item;
      printf("Enter your choice: ");
      scanf("%d",&choice);
      while(choice!=4) {
          switch(choice) {
               case 1: printf("Enter data to be pushed: ");
                       scanf("%d",&item);
                       push(&stack,item);
                       break;
               case 2: pop(&stack);
                       break;
               case 3: display(stack);
                       break;
           printf("1.Push\t2.Pop\t3.Display\t4.Exit\n");
           printf("Enter your choice: ");
```

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break;
    printf("1.Push\t2.Pop\t3.Display\t4.Exit\n");
    printf("Enter your choice: ");
    scanf("%d",&choice);
printf("End of Stack Operations\n\n");
printf("QUEUE OPERATIONS\n");
printf("1.Insert\t2.Delete\t3.Display\t4.Exit\n");
printf("Enter your choice: ");
scanf("%d",&choice);
while(choice!=4) {
    switch(choice) {
        case 1: printf("Enter data to be inserted: ");
                scanf("%d",&item);
                insert(item);
                break;
        case 2: delete();
                break:
        case 3: display_queue();
                break;
    printf("1.Insert\t2.Delete\t3.Display\t4.Exit\n");
    printf("Enter your choice: ");
    scanf("%d",&choice);
printf("End Of Queue Operations\n");
return 0;
```