**CHESS TOURNAMENT PROBLEM**

#include<stdio.h>

#include<string.h>

struct chess{

char name[30];

//char round1[30];

}s[10];

int main()

{

int n,players[10],a,i,j,pairs,k=0,m=0,t=0,len[10],len1,b,players2[10],r=0,z=0,len2[10],players3[7],large;

char round1[10][30],round2[10][30];

printf("WELCOME TO CHESS TOURNAMENT\n");

printf("Enter the number of players :");

scanf("%d",&n);

a=n;

printf("Enter the names :\n");

for(int i=0;i<n;i++)

{

scanf("%s",s[i].name);

}

printf("\n");

for(i=0;i<n;i++)

{

len1=strlen(s[i].name);

len[i]=len1;

}

printf("Allotment of points\n:");

if(n%2!=0)

{

for(i=0;i<n;i++)

{

if(i==a-1)

{

players[i]=1;

}

else{

players[i]=0;

}

}

}

else{

for(i=0;i<n;i++)

{

players[i]=0;

}

}

for(i=0;i<n;i++)

{

printf("%d ",players[i]);

}

printf("\n");

printf("-------ROUND 1 IS GOING ON -------\n");

if(n%2!=0)

{

for(i=0;i<n-1;i=i+2)

{

if(strlen(s[i].name) > strlen(s[i+1].name))

{

players[i]=1;

}

else{

players[i+1]=1;

}

}

}

else if(n%2==0)

{

for(i=0;i<n;i=i+2)

{

if(strlen(s[i].name)>strlen(s[i+1].name))

{

players[i]=1;

}

else{

players[i+1]=1;

}

}

}

for(i=0;i<n;i++)

{

printf("%d\n",players[i]);

}

printf("WINNERS LIST \n");

for(i=0;i<n;i=i+2)

{

if(players[i]>players[i+1])

{

// printf("%s\n",s[i].name);

for(k=0;k<len[i];k++)

{

round1[t][k]=s[i].name[m++];

}

round1[t][k]='\0';

}

else{

//printf("%s\n",s[i+1].name);

for(k=0;k<len[i+1];k++)

{

round1[t][k]=s[i+1].name[m++];

}

round1[t][k]='\0';

}

t++;

m=0;

}

for(i=0;i<t;i++)

{

printf("%s\n",round1[i]);

}

printf("\n");

printf("POINTS OF WINNERS\n");

for(i=0;i<n;i++)

{

if(players[i]!=0)

{

players2[r]=players[i];

len2[r]=len[i];

r++;

}

}

for(i=0;i<t;i++)

{

printf("%d ",players2[i]);

}

printf("\n");

printf("---------Round 2 is going between winners of round 1 ------------\n");

for(i=0;i<t;i=i+2)

{

if(strlen(round1[i])>strlen(round1[i+1]))

{

players2[i]=players2[i]+1;

}

else{

players2[i+1]=players2[i+1]+1;

}

}

m=0;

printf("Winners of round 2\n#winners list \n");

for(i=0;i<t;i=i+2)

{

k=0;

if(players2[i]>players2[i+1])

{

for(k=0;k<len2[i];k++)

{

round2[z][k]=round1[i][m++];

}

round2[z][k]='\0';

}

else{

//printf("%s\n",s[i+1].name);

for(k=0;k<len2[i+1];k++)

{

round2[z][k]=round1[i+1][m++];

}

round2[z][k]='\0';

}

z++;

m=0;

}

for(j=0;j<z;j++)

{

printf("%s\n",round2[j]);

}

printf("\n");

printf("---------FINALS//LAST ROUND------------\n");

printf("SCORES \n");

for(i=0;i<t;i++)

{

if(players2[i]>players2[i+1])

{

large=players2[i];

}

else

{

large=players2[i+1];

}

}

for(i=0;i<t;i++)

{

if(players2[i]==large)

{

players3[i]=large;

printf("%d ",players3[i]);

}

}

printf("\n");

for(i=0;i<z;i=i+2)

{

if(strlen(round2[i])>strlen(round2[i+1]))

{

printf(" OVERALL WINNER OF CHESS TOURNAMENT \n%s\n",round2[i]);

players3[i]=players3[i]+1;

printf("\n");

printf("Score:%d",players3[i]);

}

else{

printf(" OVERALL WINNER OF CHESS TOURNAMENT \n%s\n",round2[i+1]);

players3[i+1]=players3[i+1]+1;

printf("\n");

printf("Score:%d",players3[i+1]);

}

}

}

**REPEATING THRESHOLD VALUE PROBLEM**

#include<stdio.h>

int main()

{

int i,j,n,arr[15],t,b[15],q=0,rem=0,count=0,k=0;

printf("Enter the threshold value : ");

scanf("%d",&t);

printf("Enter the size of the array : ");

scanf("%d",&n);

printf("Enter the elements :\n");

for(i=0;i<n;i++)

{

scanf("%d",&arr[i]);

}

for(i=0;i<n;i++)

{

q=arr[i]/t;

rem=arr[i]%t;

for(j=0;j<q;j++)

{

b[k++]=t;

}

b[k++]=rem;

}

for(i=0;i<k;i++)

{

if(b[i]!=0)

{

count++;

}

}

printf("\n");

printf("%d",count);

}

**ARRANGING YEARS IN ASCENDING ORDER**

#include<stdio.h>

struct year

{

int date;

int month;

int year;

}arr[15];

int main()

{

int i,j,n,temp,temp1,temp2;

printf("Enter the size of array : ");

scanf("%d",&n);

printf("Enter the dates :\n");

for(i=0;i<n;i++)

{

scanf("%d %d %d",&arr[i].date,&arr[i].month,&arr[i].year);

}

for(i=0;i<n-1;i++)

{

for(j=i+1;j<n;j++)

{

if(i!=j)

{

if(arr[i].year > arr[j].year)

{

temp=arr[j].year;

arr[j].year=arr[i].year;

arr[i].year=temp;

temp1=arr[j].date;

arr[j].date=arr[i].date;

arr[i].date=temp1;

temp2=arr[j].month;

arr[j].month=arr[i].month;

arr[i].month=temp2;

}

}

}

}

printf("The dates is ascending order is :\n");

for(i=0;i<n;i++)

{

printf("%d /%d /%d \n",arr[i].date,arr[i].month,arr[i].year);

}

}

**PATTERN A PROBLEM**

#include<stdio.h>

int main()

{

int height,width,n,i,j;

printf("Enter the height : ");

scanf("%d",&height);

width=(height\*2)-1;

n=width/2;

for(i=0;i<height;i++)

{

for(j=0;j<=width;j++)

{

if(j==n||j==(width-n)||(i==height/2 && j>n && j<(width-n)))

{

printf("\*");

}

else

{

printf(" ");

}

}

printf("\n");

n--;

}

}

**LINKEDLIST DISPLAYING ELEMENTS PROBLEM**

#include<stdio.h>

#include<stdlib.h>

struct node

{

int data;

struct node\* next;

};

struct node\* create(int data)

{

struct node\* temp;

temp=malloc(sizeof(struct node));

temp->data=data;

temp->next=temp;

return temp;

};

struct node\* add(struct node\* tail,int data)

{

struct node\* newp=malloc(sizeof(struct node));

newp->data=data;

newp->next=tail->next;

tail->next=newp;

return tail;

};

void print(struct node\* tail)

{

int count=0;

struct node\* p;

p=tail;

do

{

printf("%d ",tail->data);

count++;

tail=tail->next;

}while(tail!=p);

printf("\n");

printf("the datas count are %d",count);

}

int main()

{

int data;

struct node\* tail;

struct node\* newp=malloc(sizeof(struct node));

printf("Enter the data : ");

scanf("%d",&data);

tail=create(data);

printf("Enter the data : ");

scanf("%d",&data);

tail=add(tail,data);

printf("Enter the data : ");

scanf("%d",&data);

newp->data=data;

newp->next=tail;

tail->next->next=newp;

tail=newp->next;

printf("Enter the data : ");

scanf("%d",&data);

newp=malloc(sizeof(struct node));

newp->data=data;

newp->next=tail;

tail->next->next->next=newp;

tail=newp->next;

print(tail);

}

**C++ STRING PROBLEM**

#include<iostream>

#include<string.h>

using namespace std;

int main()

{

int a,len,count1=0,flag=-1,i;

char str[10];

cout<<"Enter the string ";

cin>>str;

len=strlen(str);

for(i=0;i<len;i++)

{

if(str[i]=='(')

{

count1++;

}

if(str[i]==')')

{

count1--;

}

if(str[i]=='+'||str[i]=='-'||str[i]=='\*'||str[i]=='/')

{

if(str[i-1]>96 && str[i-1]<122 &&str[i+1]>96&&str[i+1]<122)

{

continue;

}

else{

flag=0;

break;

}

}

}

if(count1==0 && flag<0)

{

cout<<"valid";

}

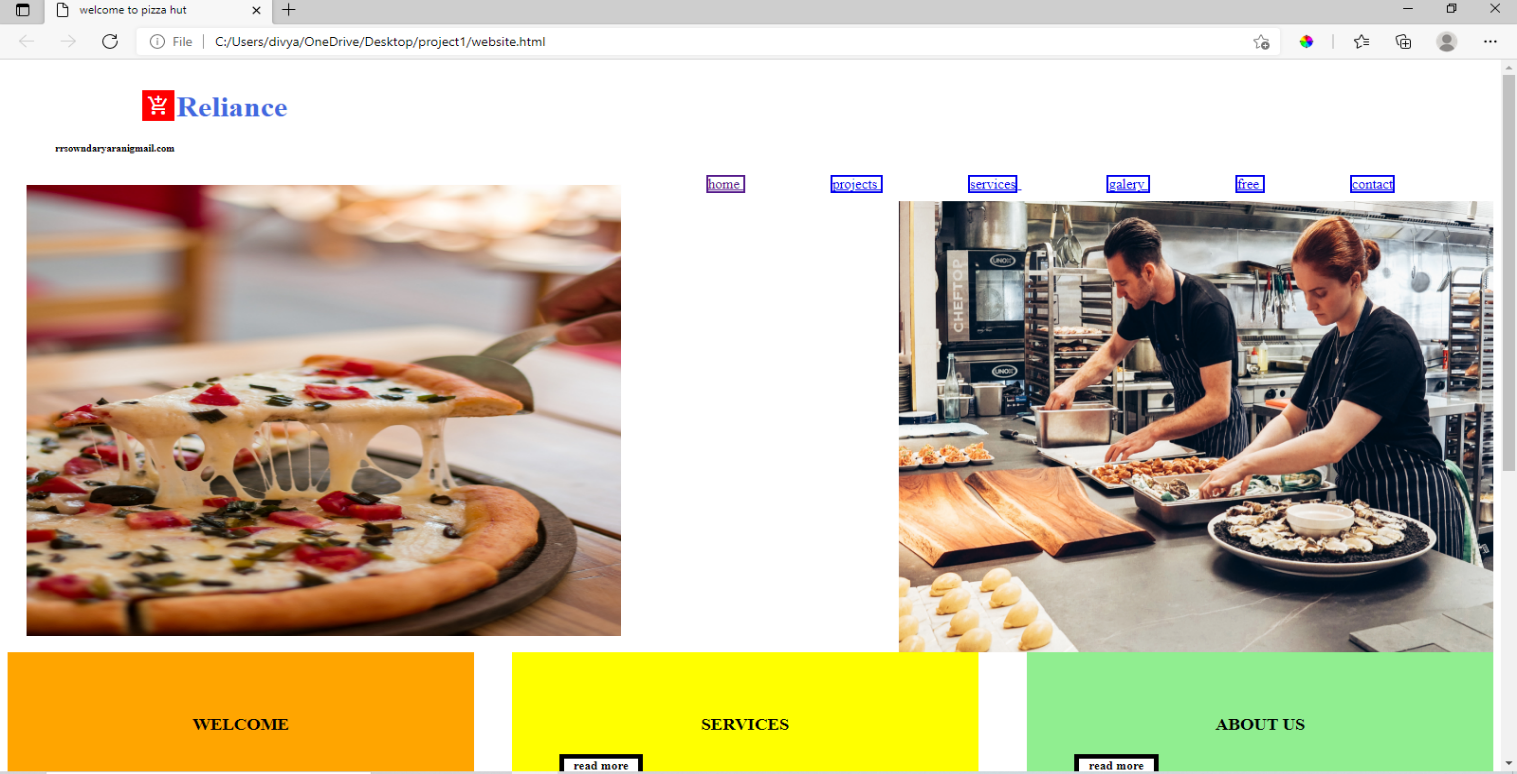
else{

cout<<"invalid";

}

}

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