1. Divide Again!

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n;

scanf("%d",&n);

if(n%3==0)

printf("%d",n/3);

else

printf("-1");

return 0;

}

2. Operator!!

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

char s[21];

scanf("%s",s);

int a,b;

scanf("%d %d",&a,&b);

int ans=0;

for(int i=0;i<strlen(s);i++)

{

if(s[i]=='\*') ans+=(a\*b);

else ans+=(a+b);

}

printf("%d\n",ans);

return 0;

}

3. Two-Dimensional Operation

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n,m;

scanf("%d %d",&n,&m);

int a[n][m];

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

{

for(int j=0;j<m;j++)

{

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

}

}

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

{

for(int j=0;j<m;j++)

{

if(a[i][j]==i+1 && a[i][j]==j+1) a[i][j]+=3;

else if(a[i][j]==i+1) a[i][j]+=2;

else if(a[i][j]==j+1) a[i][j]++;

}

}

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

{

for(int j=0;j<m;j++)

{

printf("%d ",a[i][j]);

}

printf("\n");

}

return 0;

}

4. Binary Pairs

#include<stdio.h>

int main()

{

int t;

scanf("%d",&t);

while(t--)

{

int n;

scanf("%d",&n);

char a[n+2];

scanf("%s",a);

int ans=0;

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

{

if(a[i]=='0' && a[i+1]=='1') ans++;

if(a[i]=='1' && a[i+1]=='0') ans++;

}

printf("%d\n",ans);

}

}

5. Xoss Pattern

#include<stdio.h>

int main()

{

int n,arr[15][15],i,j;

scanf("%d",&n);

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

{

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

{

if(j==1)

arr[i][j]=i;

else if(i==n)

arr[i][j]=n;

else

arr[i][j]=j;

}

}

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

{

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

{

if(i>1 && i<n && j>1 && j<n)

printf(" ");

else

printf("%d",arr[i][j]);

}

printf("\n");

}

return 0;

}

6. Plus Minus

#include <stdio.h>

int main() {

int plus=1, minus=1, maxplus=0,maxminus=0, n;

scanf("%d", &n);

char s[n];

scanf("%s", &s);

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

plus=1, minus=1;

while (s[i] =='+' && s[i] == s[i + 1]) {

i++;

plus++;

}

if(plus>=maxplus){

maxplus = plus;

}

while (s[i] =='-' && s[i] == s[i + 1]) {

i++;

minus++;

}

if(minus>=maxminus){

maxminus = minus;

}

}

if(maxplus>maxminus){

printf("%d\n", maxplus);

return 0;

}

printf("%d\n", maxminus);

return 0;

}

7. Lucky Seven!!

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

#include <stdbool.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int t;

scanf("%d",&t);

while(t--)

{

char a[22];

scanf("%s",a);

bool isPalindrome=true;

int n=strlen(a);

int i=0,j=n-1;

while(i<j)

{

if(a[i] != a[j])

{

isPalindrome=false;

break;

}

i++;

j--;

}

if(!isPalindrome)

{

printf("Case #1: Not Palindrome\n");

}

else

{

if(n>7)

{

printf("Case #2: %c%d%c\n",a[0],n-2,a[n-1]);

}

else

printf("Case #3: %s\n",a);

}

}

return 0;

}

8. Find the Maximum even

#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int n;

scanf("%d",&n);

int a[n];

for(int i=0;i<n;i++) scanf("%d",&a[i]);

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

{

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

{

if(a[i]>a[j])

{

int t=a[i];

a[i]=a[j];

a[j]=t;

}

}

}

int op1=0,op2=0;

int evenCount=2,oddCount=2;

for(int i=n-1;i>=0;i--)

{

if(a[i]%2==0 && evenCount>0)

{

evenCount--;

op1+=a[i];

}

if(a[i]%2==1 && oddCount>0)

{

oddCount--;

op2+=a[i];

}

}

if(oddCount>0) printf("%d\n",op1);

else

{

(op1>op2)? printf("%d\n",op1) : printf("%d\n",op2);

}

return 0;

}