

TC

File Edit Run Compile Project Options Debug Break/watch

Line 10 Col 17 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
char a[4]; int i;
clrscr();
for(i=0;i<4;i++) printf("%4d",a[i]);
getch();
}
/*Gr gr gr gr */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
static int a[4]; int i;
clrscr();
for(i=0;i<4;i++) printf("%4d",a[i]);
getch();
}
/*0 0 0 0 */
```

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```
0 0 0 0
```

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Error: Incompatible type conversion in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]=9; int i;
clrscr();
for(i=0;i<4;i++) printf("%4d",a[i]);
getch();
}
/* Error */
```

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Error: Initializer syntax error in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[4]={ }; int i;
    clrscr();
    for(i=0;i<4;i++) printf("%4d",a[i]);
    getch();
}
/* Error */
```

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Error: Initializer syntax error in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[4]={{1,2},{3,4}}; int i;
    clrscr();
    for(i=0;i<4;i++) printf("%4d",a[i]);
    getch();
}
/* Error */
```

Message —

Compiling E:\TC\2PM.C: Activate Windows
•Error E:\TC\2PM.C 5: Initializer syntax error in function main PC settings to activate Windows.
Error E:\TC\2PM.C 5: Declaration syntax error in function main

Windows Taskbar icons: File Explorer, Google Chrome, VLC, Paint, Word, DEV, Zoom, Calculator, Task View, Keyboard, Mouse, Volume, Date/Time (2:22 PM, 25-Sep-23)

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]={{1},{2},{3},{4}}; int i;
clrscr();
for(i=0;i<4;i++) printf("%4d",a[i]);
getch();
}
/* 1 2 3 4 */
```

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Line 10 Col 11 Insert Indent Tab Fill Unindent * E:2PM.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]={9}; int i;
clrscr();
for(i=0;i<4;i++) printf("%4d",a[i]);
getch();
}
/* 9 0 0 0 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[]={9}; int i;
clrscr();
for(i=0;i<4;i++) printf("%4d",a[i]);
getch();
}
/* 9 gr gr gr_*/
```

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Error: Expression syntax in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]={9,1, , 3}; int i;
clrscr();
for(i=0;i<4;i++) printf("%4d",a[i]);
getch();
}
/* Error */
```

Message —

Compiling E:\TC\2PM.C:

- Error E:\TC\2PM.C 5: Expression syntax in function main
- Error E:\TC\2PM.C 5: Declaration syntax error in function main

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Windows Taskbar: 2:25 PM, 25-Sep-23

Windows Taskbar: 2:26 PM, 25-Sep-23

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]={'1','2','3','4'}; int i;
clrscr();
for(i=0;i<4;i++) printf("%d",a[i]);
getch();
}
/* 49 50 51 52 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]={1.0,2.0,3.0,4.0}; int i;
clrscr();
for(i=0;i<4;i++) printf("%d",a[i]);
getch();
}
/* 1 2 3 4 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
    float a[4]={1,2,3,4}; int i;
    clrscr();
    for(i=0;i<4;i++) printf("%10.2f",a[i]);
    getch();
}
/* -----1.00 -----2.00 -----3.00 -----4.00 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[4]={1>2,2>1,2*1,40000}; int i;
    clrscr();
    for(i=0;i<4;i++) printf("%8d",a[i]);
    getch();
}
/* 0 1 2 -25536 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int n=4, a[n]={9,3,1,8}; int i;
clrscr();
for(i=0;i<4;i++) printf("%8d",a[i]);
getch();
}
/* Error */
```

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Error: Constant expression required in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
const int n=4, a[n]={9,3,1,8}; int i;
clrscr();
for(i=0;i<4;i++) printf("%8d",a[i]);
getch();
}
/* Error */
```

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```
#include<stdio.h>
#include<conio.h>
#define n 4 /* macro */
void main()
{
    int a[n]={9,3,1,8}; int i;
    clrscr();
    for(i=0;i<4;i++) printf("%8d",a[i]);
    getch();
}
/* 9 3 1 8 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[4]={9}; int i;
    clrscr();
    a[0]=1; a[3]=4;
    for(i=0;i<4;i++) printf("%8d",a[i]);
    getch();
}
/* 1 0 0 4 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[]={9}; int i;
clrscr();
a[0]=1; a[3]=4;
for(i=0;i<4;i++) printf("%8d",a[i]);
getch();
}
/* 1 gr gr 4 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]; int i;
clrscr();
a[0]=1; a[3]=4;
for(i=0;i<4;i++) printf("%8d",a[i]);
getch();
}
/* 1 gr gr 4 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int b[4]={1,2,3,4},a[4]; int i;
clrscr();
a=b;
for(i=0;i<4;i++) printf("%d",a[i]);
getch();
}
/* Error */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[2]={1,2}; int i;
clrscr();
a[2]=3;a[3]=4;
for(i=0;i<4;i++)printf("%d",a[i]);
getch();
}
/* 1 2 3 4 */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
    int b[4]={1,2,3,4},a[4]={1,2,3,4}; int i;
    clrscr();
    puts(a==b?"Equal":"Not equal");
    getch();
}
/* Not equal_*/
```

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Error: Too many initializers in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[2]={1,2,3,4}; int i;
    clrscr();
    for(i=0;i<4;i++)printf("%4d",a[i]);
    getch();
}
/* Error */
```

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Error: Too many initializers in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[9&&5]={1,2,3,4}; int i;
    clrscr();
    for(i=0;i<4;i++)printf("%4d",a[i]);
    getch();
}
/* Error */
```

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[9-5]={1,2,3,4}; int i;
clrscr();
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 1 2 3 4 */
```

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Error: Constant expression required in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
float a[4.5]={1,2,3,4}; int i;
clrscr();
for(i=0;i<4;i++)printf("%f\t",a[i]);
getch();
}
/* Error */
```

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```
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Edit
Error: Array size too large in function main
#include<stdio.h>
#include<conio.h>
void main()
{
int a[-4]={1,2,3,4}; int i;
clrscr();
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* Error */
```

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Reading and printing array elements:

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
if(n<1||n>100)puts("Size 1-100 Only");
else
{
printf("Enter %d integers ", n);
for(i=0;i<n;i++)scanf("%d",&a[i]);
puts("Elements");
for(i=0;i<n;i++)printf("%4d",a[i]);
}
getch();
}
```

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Enter array size 1-100 -4
Size 1-100 Only

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```
TC
Enter array size 1-100 120
Size 1-100 Only

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TC
Enter array size 1-100 4
Enter 4 integers 2 0 4 8
Elements
2 0 4 8

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```

Read n elements of array and find the elements sum and avg.

```
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#include<stdio.h>
#include<conio.h>
void main()
{
float a[100],s=0; int n,i; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements ", n);
for(i=0;i<n;i++){scanf("%f",&a[i]); s+=a[i]; }
printf("Elements sum=%2f, Avg=%2f", s, s/n);
getch();
}
```

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```
TC
Windows Start File Explorer Google Chrome VLC Media Player Paint Word DEV zoom Task View Keyboard Language Settings Volume 3:04 PM 25-Sep-23
Enter array size 1-100 4
Enter 4 elements 1.1 2.2 3.3 4.4
Elements sum=11.00, Avg=2.75
```

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```
Windows Start File Explorer Google Chrome VLC Media Player Paint Word DEV zoom Task View Keyboard Language Settings Volume 3:04 PM 25-Sep-23
```

1.1	2.2	3.3	4.4	11.0/4=2.75
0	1	2	3	

Read n elements into array and find the max, min elements.

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],max, min, n,i; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements ", n);
for(i=0;i<n;i++)scanf("%d",&a[i]);
max=min=a[0];
for(i=1;i<n;i++)
{
if(max<a[i])max=a[i];
if(min>a[i])min=a[i];
}
printf("Min=%d, Max=%d", min, max);
getch();
}
```

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```
Enter array size 1-100 9
Enter 9 elements 5 -7 4 0 1 -30  23 11 123
Min=-30, Max=123
```

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```
for( i=1; i<4;i++)
```

```
{  
if( max<a[i]) max=a[i];  
if( min >a[i]) min=a[i];  
}
```

i	max	min
1	$1 < 2$	$1 > -3$
2	$2 < -3$	$1 > -3$
3	$-3 < 4$	$-3 > 4$

Find no of even/odd/zero elements in given array.

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],e,o,z,n,i; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements ", n);
for(e=o=z=i=0;i<n;i++)
{
scanf("%d",&a[i]);
if(a[i]==0)z++; else if(a[i]%2==0)e++; else o++;
}
printf("Even=%d, Odd=%d, Zero=%d", e,o,z);
getch();
}
```

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```
Enter array size 1-100 9
Enter 9 elements 4 0 7 2 -4 70 -3 6 9
Even=5, Odd=3, Zero=1
```

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```

for(i=0;i<4;i++)
{
scanf("%d",&a[i]);
if(a[i]==0)z++;
else if(a[i]%2==0)e++;
else o++;
}
p( e, o, z );

```

a	1	2	0	4
	0	1	2	3
i	e	o	z	
0	0	0	0	
1				
2	2			
3	2			

Finding the prime / composite elements of array:

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```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],c,n,i,j; clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d elements ", n);
for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<n;i++)
{
for(c=0, j=1;j<=a[i];j++) if(a[i]%j==0)c++;
printf("%d ",a[i]);
puts( c==2 ?"Prime":"Composite");
}
getch();
}
```

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```
Enter array size 1-100 7
Enter 7 elements 2 9 3 5 6 10 15
2 Prime
9 Composite
3 Prime
5 Prime
6 Composite
10 Composite
15 Composite
```

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```

for(i=0;j<4;i++) scanf("%d",&a[i]);
for(i=0; i<4;i++)
{
    for( c=0, j=1;j<=a[i];j++) if(a[i]%j==0) c++;
    p("%d", a[i]);
    if(c==2)p(" is prime\n", else
    p("Composite");
}

```

$a[3] = \frac{1}{3} \times 1 = 0$
 $\frac{3}{3} \times 2 = 1$
 $\frac{3}{3} \times 5 = 0$
 $2 \% 1 = 0$
 $2 \% 2 = 0$
 $3 \% 1 = 0$
 $3 \% 2 = 1$
 $3 \% 3 = 0$

1 0	2	2 0	3
0	1	2	3

$a[1] = \frac{10}{10} \times 1 = 0$
 $\frac{10}{10} \times 2 = 0$
 $\frac{10}{10} \times 5 = 0$
 $\frac{10}{10} \% 1 = 0$
 $\frac{10}{10} \% 2 = 0$

$a[2] = \frac{2}{2} \times 1 = 0$
 $\frac{2}{2} \times 2 = 0$

Home work: Arrange array elements in reverse order.