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```
1  #include <stdio.h>
2
3  int main() {
4      int choice;
5      float fahrenheit, celsius;
6      printf("Temperature Conversion:\n");
7      printf("1. Fahrenheit to Celsius\n");
8      printf("2. Celsius to Fahrenheit\n");
9      printf("Enter your choice (1 or 2): ");
10     scanf("%d", &choice)
11     switch (choice) {
12         case 1:
13             printf("Enter temperature in Fahrenheit: ");
14             scanf("%f", &fahrenheit);
15             celsius = (fahrenheit - 32) * 5 / 9;
16             printf("%.2f Fahrenheit is equal to %.2f Celsius.\n", fahrenheit, celsius);
17             break;
18
19         case 2:
20             printf("Enter temperature in Celsius: ");
21             scanf("%f", &celsius);
22             fahrenheit = (celsius * 9 / 5) + 32;
23             printf("%.2f Celsius is equal to %.2f Fahrenheit.\n", celsius, fahrenheit);
24             break;
25
26         default:
27             printf("Invalid choice. Please enter 1 or 2.\n");
28             break;
29     }
30
31     return 0;
32 }
```

```
1 #include <stdio.h>
2
3 int main() {
4     int num, reversed = 0, remainder, original;
5     printf("Enter an integer: ");
6     scanf("%d", &num);
7
8     original = num;
9     while (num != 0) {
10         remainder = num % 10;
11         reversed = reversed * 10 + remainder;
12         num /= 10;
13     }
14     if (original == reversed) {
15         printf("%d is a palindrome.\n", original);
16     } else {
17         printf("%d is not a palindrome.\n", original);
18     }
19
20     return 0;
21 }
```

```
1 #include <stdio.h>
2
3 main(){
4 int units;
5 float total amount;
6 printf("enter the units:");
7 scanf("%d",&units);
8 if (units<=50)
9 {
10 | total amount=(units*0.50);
11 }
12     else if(units >50 && units <=150)
13     {
14         total amount=(50*0.50)+ ((units-50)*0.25);
15     }
16     else if(units>150 && units<=250)
17     {
18         total amount=(50*0.50)+(100*0.25)+((units-150)*1.20);
19     }
20     else (units>250)
21     {
22         total amount=(50*0.50)+(100*0.25)+(100*1.20)+((units-250)*1.50);
23     }
24     printf("total amount is %f",total amount);
25 }
```


```
1 #include<stdio.h>
2 main()
3 {
4     int a,b,c,d;
5     printf("enter the values of a,b,c,d");
6     scanf("%d %d%d%d",&a,&b,&c,&d);
7     if(d>c)
8     {
9         if(d>b,d>a)
10        {
11            printf("d is biggest no");
12        }
13        else
14        {
15            if(a>b)
16            {
17                printf("a is biggest no");
18            }
19            else
20            {
21                printf("b is biggest no");
22            }
23        }
24    }
25    else
26    {
27        if(c>b,c>a)
28        {
29            printf("c is biggest no");
30        }
31        else
32        {
33            if(a>b)
34            {
35                printf("a is biggest");
36            }
37            else
38            {
39                printf("b is biggest no");
40            }
41        }
42    }
43 }
```

```
1 #include<stdio.h>
2 | void main()
3 {
4 int i,num,count=0;
5 printf("enter the number value:");
6 scanf("%d",num);
7 i=1;
8 while(i<=num)
9 {
10 | if(num%i==0)
11 | count++;
12 | i++;
13 | }
14 if(count==2)
15 {
16 printf("%d is prime number",num);
17 }
18 else
19 {
20 printf("%d is not a prime number");
21 }
22 }
23
```

```
1 #include<stdio.h>
2 main()
3 {
4     int num,sum=0,i;
5     printf("enter the number:");
6     scanf("%d",&num);
7     for(i=1;num>i;i++)
8     if(num%i==0)
9     sum=sum+i;
10 {
11     if(sum==num)
12     {
13     printf("%d is a perfect number",num);
14     }
15     else
16     {
17     printf("%d is not a perfect number",num);
18     }
19 }
20 }
```

```
1 #include<stdio.h>
2 main()
3 {
4     int X,Y,a,b;
5     printf("enter the values of X,Y,a,b");
6     scanf("%d %d %d %d ",&X,&Y,&a,&b);
7     printf("numbers that are divisible by%d and%d from%d and %d are:",a,b,X,Y);
8     for(int i=X;i<=Y;i++)
9     {
10         if(i%a==0 && i%b==0)
11             printf("%d",i);
12     }
13 }
14
```

```
1 #include<stdio.h>
2 #include<math.h>
3 main()
4 {
5     int a,b,c;
6     float x1,x2;
7     printf("enter the equation a*x*x+b*x+c=0");
8     scanf("%d %d %d",&a,&b,&c);
9     x1==(-b+√(b*b-4*a*c))/(2*a);
10    x2==(-b-√(b*b-4*a*c))/(2*a);
11    printf("the roots of the %dx*x+%dx+%d=0 are %f and%f :",a,b,c,x1,x2);
12 }
```




```
1 #include<stdio.h>
2 main()
3 {
4 int num,sum=0,rem;
5 printf("enter the number:");
6 scanf("%d",&num);
7 while(num>0)
8 rem=num%10;
9 sum=sum+pow(rem,3);
10 num=num/10;
11 if(num==sum)
12 {
13 printf("the given num %d is armstrong",num);
14 }
15 else
16 {
17 printf("the given num%d is not armstrong",num);
18 }
19 }
```



```
1 #include<stdio.h>
2 void main()
3 {
4 int n,i,B[100],j;
5 printf("enter n:");
6 scanf("%d",&n);
7 while(n>0)
8 {
9 B[i]=n%2;
10 n=n/2;
11 i++;
12 }
13 for(j=i-1;j>=0;j--)
14 printf("%d",B[j]);
15 }
16
```