

main.c



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Output

Clear

```
1 #include <stdio.h>
2
3 int main() {
4     int num = 45;
5     int binary[32];
6     int i = 0;
7
8     if (num == 0) {
9         printf("Binary representation: 0\n");
10        return 0;
11    }
12
13    while (num > 0) {
14        binary[i++] = num % 2;
15        num /= 2;
16    }
17
18    printf("Binary representation: ");
19    for (int j = i - 1; j >= 0; j--) {
20        printf("%d", binary[j]);
21    }
22    printf("\n");
23
24    return 0;
25 }
```

Binary representation: 101101

=== Code Execution Successful ===

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```
1
2
3 long long ipow(int base, int exp) {
4     long long r = 1;
5     for (; exp > 0; --exp) r *= base;
6     return r;
7 }
8
9 int main(void) {
10     long long n = 153;
11     long long t = n;
12     int digits = (t == 0) ? 1 : 0;
13     while (t) { digits++; t /= 10; }
14
15     t = n;
16     long long sum = 0;
17     while (t) {
18         int d = t % 10;
19         sum += ipow(d, digits);
20         t /= 10;
21     }
22
23     if (sum == n) printf("Armstrong number\n");
24     else printf("Not Armstrong number\n");
25     return 0;
26 }
27
```

Armstrong number

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```
1  #include <stdio.h>
2
3  int main(void) {
4      int n = 29;
5      int i, isPrime = 1;
6
7      if (n <= 1) isPrime = 0;
8      else {
9          for (i = 2; i * i <= n; i++) {
10             if (n % i == 0) {
11                 isPrime = 0;
12                 break;
13             }
14         }
15     }
16
17     if (isPrime) printf("Prime\n");
18     else printf("Not Prime\n");
19
20     return 0;
21 }
22
```

Prime

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Output

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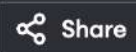
```
1 #include <stdio.h>
2
3 int main(void) {
4     int n = 36;        // change this number to test others
5     for (int i = 1; i <= n; i++) {
6         if (n % i == 0)
7             printf("%d ", i);
8     }
9     printf("\n");
10    return 0;
11 }
12
```

1 2 3 4 6 9 12 18 36

=== Code Execution Successful ===

main.c			Share	Run	Output	Clear
<pre>1 #include <stdio.h> 2 3 int main(void) { 4 int a = 36, b = 60; 5 while (b != 0) { 6 int temp = b; 7 b = a % b; 8 a = temp; 9 } 10 printf("HCF: %d\n", a); 11 return 0; 12 } 13</pre>					<pre>HCF: 12 === Code Execution Successful ===</pre>	

main.c



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Output

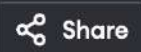
Clear

```
1  #include <stdio.h>
2
3  int main() {
4      int a = 12, b = 15, max, lcm;
5
6      max = (a > b) ? a : b;
7
8      while(1) {
9          if(max % a == 0 && max % b == 0) {
10             lcm = max;
11             break;
12         }
13         max++;
14     }
15
16     printf("%d\n", lcm);
17     return 0;
18 }
19
20
```

60

=== Code Execution Successful ===

main.c



Run

Output

Clear

```
1  #include <stdio.h>
2
3  int main() {
4      int num = 1234, sum = 0;
5
6      while(num > 0) {
7          sum += num % 10;
8          num /= 10;
9      }
10
11     printf("%d\n", sum);
12     return 0;
13 }
14
```

10

=== Code Execution Successful ===

main.c



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Output

Clear

```
1  #include <stdio.h>
2
3  int main() {
4      int num = 12345, product = 1, temp = num;
5      int hasOdd = 0;
6
7      while(temp > 0) {
8          int digit = temp % 10;
9          if(digit % 2 != 0) {
10             product *= digit;
11             hasOdd = 1;
12         }
13         temp /= 10;
14     }
15
16     if(hasOdd)
17         printf("%d\n", product);
18     else
19         printf("No odd digits\n");
20
21     return 0;
22 }
23
```

15

=== Code Execution Successful ===

main.c



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Output

Clear

```
1  #include <stdio.h>
2
3  int main() {
4      char binary[] = "101101";
5      int i;
6
7      for(i = 0; binary[i] != '\0'; i++) {
8          if(binary[i] == '0')
9              binary[i] = '1';
10         else if(binary[i] == '1')
11             binary[i] = '0';
12     }
13
14     printf("%s\n", binary);
15     return 0;
16 }
17
```

010010

=== Code Execution Successful ===