













```
★ File Edit Selection View Go Run Terminal Help

                                                                                                 Ocode [Administrator]
                                                                                                                                                                                              + II A ...
       C maine EX4.11
                        C main.c EX4.12
                                          C main.c EX4.26 X

    bash

       EX4.26 > C main.c > ...
                                                                                                           136088 3.141585305403281
             #include <stdio.h>
                                                                                                           136089 3.141600001722221
                                                                                                           136090 3.141585305511271
             int main() {
                                                                                                           136091 3.141600001614232
                 double pi = 0.0;
                                                                                                           136092 3.141585305619258
                 int n = 0;
                                                                                                          136093 3.141600001506247
         6
                 int sign = 1;
                                                                                                          136094 3.141585305727242
                 double term;
                                                                                                           136095 3.141600001398265
         8
                 int precision1 = 0, precision2 = 0, precision3 = 0, precision4 = 0;
                                                                                                          136096 3.141585305835223
                                                                                                           136097 3.141600001290286
         9
                                                                                                           136098 3.141585305943200
        10
                 printf("Terms\tApproximation of Pi\n");
                                                                                                          136099 3.141600001182310
                 printf("----\n");
        11
                                                                                                           136100 3.141585306051175
        12
                                                                                                           136101 3.141600001074338
        13
                                                                                                           136102 3.141585306159146
                     term = sign * (4.0 / (2 * n + 1));
        14
                                                                                                           136103 3.141600000966369
        15
                     pi += term;
                                                                                                          136104 3.141585306267114
        16
                     sign = -sign;
                                                                                                           136105 3.1416000000858402
        17
                     n++;
                                                                                                           136106 3.141585306375079
        18
                                                                                                          136107 3.141600000750439
        19
                     printf("%d\t%.15f\n", n, pi);
                                                                                                           136108 3.141585306483040
        20
                                                                                                           136109 3.141600000642479
        21
                     if (|precision1 && pi >= 3.14 && pi < 3.15) precision1 = n;
                                                                                                           136110 3.141585306590999
                                                                                                           136111 3.141600000534523
                     if (|precision2 && pi >= 3.141 && pi < 3.142) precision2 = n;
        22
                                                                                                          136112 3.141585306698954
        23
                     if (!precision3 && pi >= 3.1415 && pi < 3.1416) precision3 = n;
                                                                                                          136113 3.141600000426569
        24
                     if (!precision4 && pi >= 3.14159 && pi < 3.14160) precision4 = n;
                                                                                                           136114 3.141585306806906
        25
                 } while (precision4 == 0);
                                                                                                           136115 3.141600000318618
        26
                                                                                                           136116 3.141585306914854
        27
                 printf("\nTerms required to reach:\n");
                                                                                                           136117 3.141600000210671
        28
                 printf("3.14: %d\n", precision1);
                                                                                                          136118 3.141585307022800
        29
                 printf("3.141: %d\n", precision2);
                                                                                                          136119 3.141600000102727
        30
                 printf("3.1415: %d\n", precision3);
                                                                                                           136120 3.141585307130743
        31
                 printf("3.14159: %d\n", precision4);
                                                                                                           136121 3.141599999994786
        32
        33
                                                                                                           Terms required to reach:
                 return 0:
                                                                                                          3.14: 119
        34
                                                                                                          3.141: 1688
        35
                                                                                                           3.1415: 10794
                                                                                                          3.14159: 136121
                                                                                                           Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex4.26 (main)
                                                                                                          $
  👺 main* 🔾 😸 0 🛆 0 👨 Code 🗏 Debug 🦁 D 😅 📵 💖 0 🖒 C/C++ Runner: Debug Session (Code) Blackbox Search Error Share Code Link Generate Commit Message Explain Code Comment Code Find Bugs Code Chat
                                                                                                                                                                                               O Go Live Q
```

O Search

5:38 PM

```
而日而□ -

★ File Edit Selection View Go Run Terminal Help

                                                                                                   O Code [Administrator]
       C main.c EX5.16 X C main.c EX5.18

    bash

                                                                                                                                                                                                   + III A ...
       EX5.16 > C main.c >  main(void)
             #include <stdio.h>
                                                                                                                               Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.16 (main)
             #include <math.h>
                                                                                                                               $ gcc main.c -o run
             double calculateArea(double a, double b, double c) {
                                                                                                                               Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.16 (main)
                  //According to the Triangle Inequality Theorem
         6
                 if ((a + b > c) && (a + c > b) && (b + c > a)) {
                                                                                                                               Enter the sides of the traingle separated by spaces: 10 20 30
                     float s = (a + b + c) / 2;
                                                                                                                               The sides 10.000000, 20.000000, and 30.000000 do not form a valid triangle.
                     return sqrt(s * (s - a) * (s - b) * (s - c));
         8
                                                                                                                               Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.16 (main)
         9
                  } else {
                                                                                                                               $ ./run.exe
        10
                     return -1;
                                                                                                                               Enter the sides of the traingle separated by spaces: 3 4 5
        11
        12
                                                                                                                               The area of the triangle with sides 3.000000, 4.000000, and 5.000000 is 6.000000
        13
                                                                                                                               Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.16 (main)
        14
             int main(void) {
                                                                                                                               $
        15
                  double side a, side b, side c, area;
        16
        17
                  printf("Enter the sides of the traingle separated by spaces: ");
        18
                  scanf("%lf%lf%lf", &side a, &side b, &side c);
        19
        20
                  area = calculateArea(side_a, side_b, side_c);
        21
        22
                  if (area == -1) {
        23 8
                     printf("\nThe sides %lf, %lf, and %lf do not form a valid triangle.", side a, side b, side c);
        24
        25
                     printf("\nThe area of the triangle with sides %lf, %lf, and %lf is %lf", side_a, side_b, side_c, area)
        26
        27
   P main* → ⊗ 0 △ 0 👨 Code 💥 Debug 🚭 ▷ 🛱 📵 👾 0 🖒 C/C++ Runner: Debug Session (Code) Blackbox Search Error Share Code Link Generate Commit Message Explain Code Comment Code Find Bugs Code Chat
                                                                                                                                                                                                    O Go Live Q
```

O Search

5:43 PM

6/7/2024

```
□□□□ -

★ File Edit Selection View Go Run Terminal Help

                                                                                                   Code [Administrator]
                                                                                                                                                                                                   + II A ...
       C main.c EX5.16
                        C main.c EX5.18 X

    bash

       EX5.18 > C main.c > ...
             #include <stdio.h>
                                                                                                                                Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.16 (main)
                                                                                                                               $ cd ../Ex5.18
             int isEven(int number) {
                  if (number % 2 == 0) {
                                                                                                                               Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.18 (main)
                     return 1;
                                                                                                                               $ gcc main.c -o run
         6
                  } else {
                                                                                                                               Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.18 (main)
                     return 0;
                                                                                                                               $ ./run.exe
         8
                                                                                                                               Enter an Integer (Enter 0 to exit): 6
         9
                                                                                                                               6 is an even number
        10
                                                                                                                               Enter an Integer (Enter 0 to exit): 9
        11
             int main(void) {
                                                                                                                               9 is an odd number
        12
                  int integer;
                                                                                                                               Enter an Integer (Enter 0 to exit): 3
        13
                                                                                                                               3 is an odd number
        14
                  while (integer != 0) [
                                                                                                                               Enter an Integer (Enter 0 to exit): 2
        15
                     printf("Enter an Integer (Enter 0 to exit): ");
                                                                                                                               2 is an even number
                     scanf("%d", &integer);
        16
                                                                                                                               Enter an Integer (Enter 0 to exit): 0
        17
                                                                                                                               0 is an even number
        18
                     if (isEven(integer) == 0) {
                          printf("%d is an odd number\n", integer);
        19
                                                                                                                               Administrator@DESKTOP-1ULGF16 MINGW64 ~/Desktop/JUBRIL/Code/Ex5.18 (main)
                                                                                                                               $
        20
                      } else {
        21
                          printf("%d is an even number\n", integer);
        22
        23
        24
   🤌 main* 🔾 🛇 0 🛆 0 📑 Code 🗏 Debug 🌼 🗅 🛱 📵 💖 0 🖒 C/C++ Runner: Debug Session (Code) Blackbox Search Error Share Code Link Generate Commit Message Explain Code Comment Code Find Bugs Code Chat
                                                                                                                                                                                                    ◎ Go Live Q
                                                                                                                                                                                                          5:45 PM
```

6/7/2024

O Search