

Project Class sort an array 0s, and 1s.c kth largest element.c given string is anagram or not.c Untitled4.cpp height.c prime .c perfect number.c armstrong niumber.c

```
6   int numDigits = 0;
7   int sum = 0;
8   while (originalNum != 0) {
9       originalNum /= 10;
10      numDigits++;
11  }
12  originalNum = num;
13  while (originalNum != 0) {
14      int digit = originalNum % 10;
15      sum += pow(digit, numDigits);
16      originalNum /= 10;
17  }
18  return sum == num;
19 }
20 int main() {
21     int num;
22     printf("Enter a number: ");
23     scanf("%d", &num);
24
25     if (isArmstrongNumber(num)) {
26         printf("%d is an Armstrong number.\n", num);
27     } else {
28         printf("%d is not an Armstrong number.\n", num);
29     }
30
31     return 0;
32 }
33
```

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Abort Compilation

☐ Shorten compiler path

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Byalla Vishnu\Desktop\armstrong niumber.exe
- Output Size: 345.037109375 KiB
- Compilation Time: 0.27s
```

Line: 19 Col: 2 Sel: 0 Lines: 33 Length: 705 Insert Done parsing in 0.015 sec

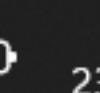
C:\Users\Byalla Vishnu\Desktop

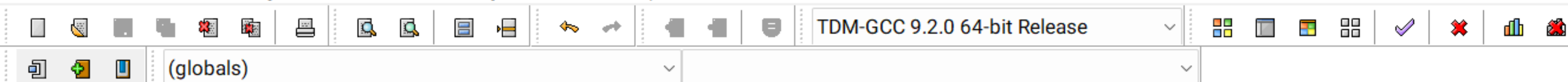
```
Enter a number: 6
6 is an Armstrong number.
```

```
-----
Process exited after 16.31 seconds with return value 0
Press any key to continue . . .
```



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Project Class sort an array 0s, and 1s.c kth largest element.c given string is anagram or not.c Untitled4.cpp height.c prime .c perfect number.c

```
1 #include <stdio.h>
2
3 int isPerfectNumber(int num) {
4     int sum = 0;
5     for (int i = 1; i < num; i++) {
6         if (num % i == 0) {
7             sum += i;
8         }
9     }
10    return sum == num;
11 }
12
13 int main() {
14     int num;
15
16     printf("Enter a number: ");
17     scanf("%d", &num);
18
19     if (isPerfectNumber(num)) {
20         printf("%d is a perfect number.\n", num);
21     } else {
22         printf("%d is not a perfect number.\n", num);
23     }
24
25     return 0;
26 }
27
```

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```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Byalla Vishnu\Desktop\perfect number.exe
- Output Size: 322.8173828125 KiB
- Compilation Time: 0.25s
```

Line: 27 Col: 1 Sel: 0 Lines: 27 Length: 477 Insert Done parsing in 0.016 sec

C:\Users\Byalla Vishnu\Desktop

```
Enter a number: 4
4 is not a perfect number.
```

```
-----
Process exited after 15.79 seconds with return value 0
Press any key to continue . . .
```



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```
3
4 int isPrime(int num) {
5     if (num <= 1) {
6         return 0;
7     }
8     for (int i = 2; i <= sqrt(num); i++) {
9         if (num % i == 0) {
10            return 0;
11        }
12    }
13    return 1;
14 }
15
16 int main() {
17     int num;
18
19     printf("Enter a number: ");
20     scanf("%d", &num);
21
22     if (isPrime(num)) {
23         printf("%d is a prime number.\n", num);
24     } else {
25         printf("%d is not a prime number.\n", num);
26     }
27
28     return 0;
29 }
30
```

Abort Compilation

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Byalla Vishnu\Desktop\prime.exe
- Output Size: 327.5703125 KiB
- Compilation Time: 0.30s
```

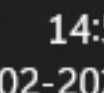
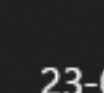
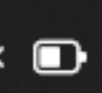
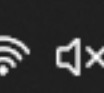
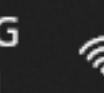
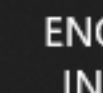
☐ Shorten compiler path

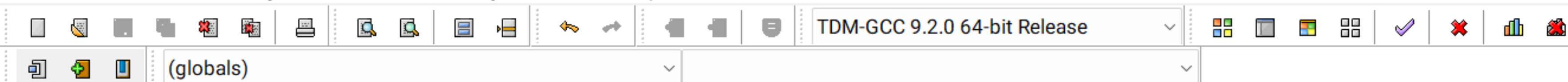
```
Enter a number: 3
3 is a prime number.
```

```
-----
Process exited after 10.09 seconds with return value 0
Press any key to continue . . .
```



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Project Class sort an array 0s, and 1s.c kth largest element.c given string is anagram or not.c Untitled4.cpp height.c

```
1 #include <stdio.h>
2
3 void categorizeHeight(float height) {
4     if (height < 4.9) {
5         printf("Dwarf\n");
6     } else if (height >= 4.9 && height <= 5.6) {
7         printf("Average\n");
8     } else {
9         printf("Taller\n");
10    }
11 }
12
13 int main() {
14     float height;
15
16     printf("Enter the height of the person (in feet): ");
17     scanf("%f", &height);
18
19     categorizeHeight(height);
20
21     return 0;
22 }
23
```

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Abort Compilation

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Byalla Vishnu\Desktop\height.exe
- Output Size: 322.9873046875 KiB
- Compilation Time: 0.28s
```

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Line: 23 Col: 1 Sel: 0 Lines: 23 Length: 423 Insert Done parsing in 0 seconds

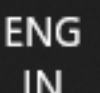
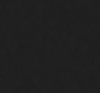
C:\Users\Byalla Vishnu\Desktop\height.c

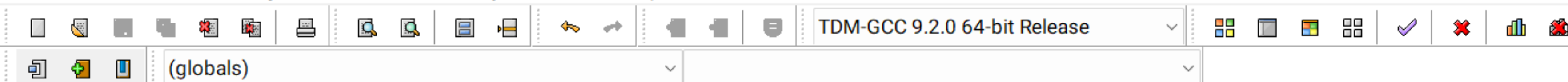
```
Enter the height of the person (in feet): 18
Taller
```

```
-----
Process exited after 25.34 seconds with return value 0
Press any key to continue . . .
```



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Project Class (globals) sort an array 0s, and 1s.c kth largest element.c given string is anagram or not.c Untitled4.cpp

```
10
11     if (ch >= 'a' && ch <= 'z') {
12         if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {
13             (*vowels)++;
14         } else {
15             (*consonants)++;
16         }
17     }
18
19     sentence++;
20 }
21 }
22
23 int main() {
24     char sentence[100];
25     int vowels, consonants;
26
27     printf("Enter a sentence: ");
28     fgets(sentence, sizeof(sentence), stdin);
29
30     countVowelsAndConsonants(sentence, &vowels, &consonants);
31
32     printf("Number of vowels: %d\n", vowels);
33     printf("Number of consonants: %d\n", consonants);
34
35     return 0;
36 }
37
```

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Abort Compilation

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```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Byalla Vishnu\Desktop\Untitled4.exe
- Output Size: 323.5087890625 KiB
- Compilation Time: 0.27s
```

Line: 37 Col: 1 Sel: 0 Lines: 37 Length: 838 Insert Done parsing in 0 second

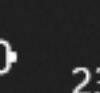
C:\Users\Byalla Vishnu\Desktop\Untitled4.exe

```
Enter a sentence: sai drinking water
Number of vowels: 6
Number of consonants: 10
```

```
-----
Process exited after 20.86 seconds with return value 0
Press any key to continue . . .
```



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