

Homework 1

Upload your source code file from DEUZEM SAKAI until **November 17, 2023, 23:55**.

Upload only a single *.cs file.

The name of the file: **number_name_surname.cs**

For example: 2015510028_ali_yildirim.cs

Write a C# program which that calculates the result of the following mathematical formula after **12 terms**.

Don't take any input from the user.

$$\frac{\sqrt{100}}{3+5} + \frac{\sqrt{95 \cdot \sqrt{100}}}{4+6+8+10} + \frac{\sqrt{90 \cdot \sqrt{95 \cdot \sqrt{100}}}}{5+7+9+11+13+15} + \frac{\sqrt{85 \cdot \sqrt{90 \cdot \sqrt{95 \cdot \sqrt{100}}}}}{6+8+10+12+14+16+18+20} + \frac{\sqrt{80 \cdot \sqrt{85 \cdot \sqrt{90 \cdot \sqrt{95 \cdot \sqrt{100}}}}}}{7+9+11+13+15+17+19+21+23+25} + \dots$$

term 1 term 2 term 3 term 4 term 5

Notes:

1. Your program must work correctly under all conditions. Try to control all possible errors.
2. You should use meaningful variable names, appropriate comments, and good prompting messages.
3. If you are late, your grade will be decreased 10 points for each day. After five days, your assignment will not be accepted.
4. Assignment must be your individual work. **Cheating** is strictly prohibited. If any cheating occurs, your assignment will be graded with **zero (0)**. A software will be used to automatically detect the similarities between students' source-codes.