

Specification:**Problem:** Calculate the square root**Input:**

- Square root number (**P, $P > 0$**),
- **side1, side2** – sides of “square”
- **x** – auxiliary variable (**side1 – side2**)
- **epsilon** – auxiliary variable, storing data about precision of calculation (**epsilon = 0,001**)

Output: Square root result (**result**)**Pseudocode:****Start****Read P**

side1 := P/2

side2 := P/side1

x := side1 – side2

if x > epsilon **then****Repeat**

side1 := (side1 + P / side1) / 2;

side2 := P / side1;

x := side1 – side2

if x < 0 **then**

x := -x

Until x > epsilon**Otherwise**

Result := side1

Write result**Stop**