



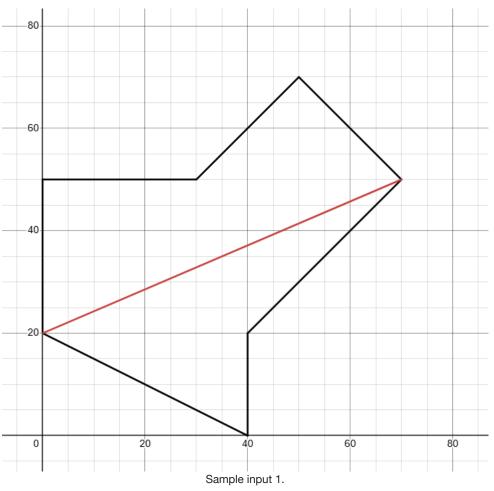
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C. Diameter of Polygon

time limit per test: 1 s memory limit per test: 256 MB

The diameter of a simple polygon is the length of the longest straight line segment that can fit in the polygon. Given a simple polygon with n vertices, try to find the diameter of the given polygon.



Input

The input starts with a line containing an integer n ($3 \le n \le 200$) specifying the number of vertices of the polygon. This is followed by n lines, each containing two integers x and y ($|x|,|y|\le 10^6$) that give the coordinates (x,y) of the vertices of the polygon in counterclockwise order. The polygon is simple, i.e., its vertices are distinct and no two edges of the polygon intersect or touch, except that consecutive edges touch at their common vertex. In addition, no two consecutive edges are collinear.

Output

Output a single number denoting the length of the diameter of the given polygon, with an absolute or relative error of at most 10^{-6} .

Examples

UIUC CS 491 Spring 2025

Private

Participant



→ About Group

Group website

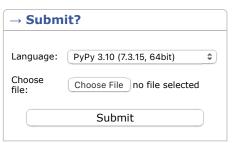
→ Group Contests

- Line Sweep Homework (Extra Credit)
- · Convex Hull Preclass
- Number Theory I Homework
- Line Sweep Preclass
- Number Theory II Homework
- · Combinatorics Homework
- Geometry Preclass
- Geometry Homework
- Convex Hull Homework (Extra Credit)
- Rabin Karp Homework
- Number Theory II Preclass
- Combinatorics Preclass
- DP TSP Homework
- KMP Homework
- DP Tree Homework
- Number Theory I Preclass
- KMP Preclass
- DP Palindromes Homework
- Rabin Karp Preclass
- DP Edit Distance Homework
- DP Knapsack Homework
- DP TSP Preclass
- DP Longest Increasing Subsequence -Homework
- DP Intro Homework
- DP Tree Preclass
- Greedy Homework
- Fenwick Tree Homework

input	Сору
7	
0 20	
40 0	
40 20	
70 50	
50 70	
30 50	
0 50	
output	Сору
76.157731059	

- DP Knapsack Preclass
- DP Edit Distance Preclass
- Segment Tree Homework
- DP Palindromes Preclass
- Lazy Segment Tree Homework
- LCA and Binary Lifting Homework
- DP intro Preclass
- Square Root Decomposition Homework
- DP Longest Increasing Subsequence Preclass
- Greedy Preclass
- Fenwick Tree Preclass
- Bit Manipulation Homework
- Square Root Decomposition Preclass
- Fast Exponentiation Homework
- MST Homework
- Lazy Segment Tree Preclass
- LCA and Binary Lifting Preclass
- Segment Tree Preclass
- Bit Manipulation Preclass
- Fast Exponentiation Preclass
- MST Preclass
- Graph Traversal 2 Homework
- Graph Traversal 2 In Class
- All Pairs Shortest Path Homework
- All Pairs Shortest Path In Class
- Single Source Shortest Path Homework
- Single Source Shortest Path In Class
- Graph Traversal 1 Homework
- Graph Traversal 1 In Class
- Binary Search Tree Homework
- Binary Search Tree In Class
- Disjoint Sets Homework
- Disjoint Sets In Class
- Divide and Conquer Homework
- Divide and Conquer In Class
- Complete Search Homework
- Complete Search In Class
- STL Homework
- STL In Class
- IO Problems Preclass
- Test Contest





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