### Assignment 2

# 程序代写代做CS编程辅导

- 1.1. **Aims.** The purpose of the assignment is to:
  - design and impleme on the desired behaviour of an application program;
  - practice the use of I
  - develop problem sol
- 1.2. **Submission.** Your protested your program, uploa more than once; the last ver

in a file named polygons.py. After you have developed and you worked directly in Ed). Assignments can be submitted assignment is due by November 20, 10:00am.

1.3. **Assessment.** The assignment is worth 13 marks. It is going to be tested against a number of input files. For each test, the automarking script will let your program run for 30 seconds.

Assignments can be submitted up to bays after the the define. The maximum mark obtainable reduces by 5% per full late day, for up to 5 days. Thus if students A and B hand in assignments worth 12 and 11, both two days late (that is, more than 24 hours late and no more than 48 hours late), then the maximum mark obtainable is 11.7, so A gets Ain(11.7, 11) = 11 and Biget Phin(11.7, 11) = 11. The outputs of your programs should be exactly as indicated.

1.4. Reminder on plagiarism policy. You are permitted, indeed encouraged, to discuss ways to solve the assignment with other people. Such discussions must be in terms of agorithms, not code. But you must implement the solution on your own. Submissions are routinely seamed or sinilarities that occur when students copy and modify other people's work, or work very closely together on a single implementation. Severe penalties apply.

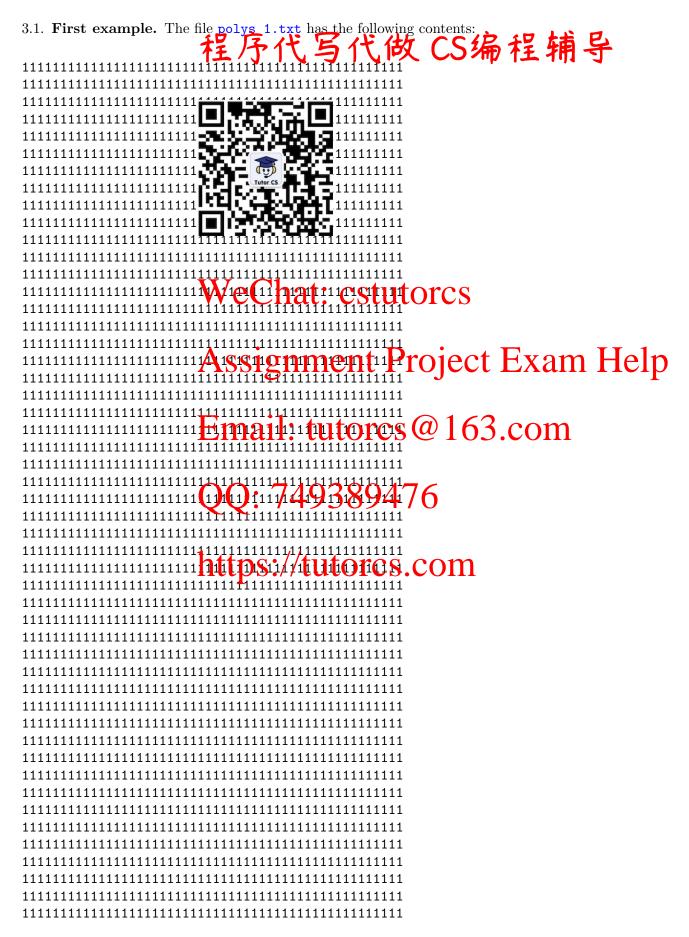
QQ: 749389476

You will design and implement a program that will

- extract and analyse the types chattle of the contours being coded and stored in a file, and
- - either display those characteristics: perimeter, area, convexity, number of rotations that keep the polygon invariant, and depth (the length of the longest chain of enclosing polygons)
  - or output some Latex code, to be stored in a file, from which a pictorial representation of the polygons can be produced, coloured in a way which is proportional to their area.

Call encoding any 2-dimensional grid of size between between  $2 \times 2$  and  $50 \times 50$  (both dimensions can be different) all of whose elements are either 0 or 1.

Call neighbour of a member m of an encoding any of the at most eight members of the grid whose value is 1 and each of both indexes differs from m's corresponding index by at most 1. Given a particular encoding, we inductively define for all natural numbers d the set of polygons of depth d (for this encoding) as follows. Let a natural number d be given, and suppose that for all d' < d, the set of polygons of depth d' has been defined. Change in the encoding all 1's that determine those polygons to 0. Then the set of polygons of depth d is defined as the set of polygons which can be obtained from that encoding by connecting 1's with some of their neighbours in such a way that we obtain a **maximal** polygon (that is, a polygon which is not included in any other polygon obtained from that encoding by connecting 1's with some of their neighbours).



```
$ python3
                    程序代写代做 CS编程辅导
>>> from polygons import
>>> polys = Polygons('polys_1.txt')
>>> polys.analyse()
Polygon 1:
   Perimeter: 78.4
   Area: 384.16
   Convex: yes
   Nb of invariant rot
   Depth: 0
Polygon 2:
   Perimeter: 75.2
   Area: 353.44
   Convex: yes
   Nb of invariant rotations (4 hat: cstutores
   Depth: 1
Polygon 3:
   Perimeter: 72.0
                    Assignment Project Exam Help
   Area: 324.00
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 2
                    Email: tutorcs@163.com
Polygon 4:
   Perimeter: 68.8
   Area: 295.84
   Convex: yes
   Nb of invariant rotations: 4749389476
   Depth: 3
Polygon 5:
   Perimeter: 65.6
                    https://tutorcs.com
   Area: 268.96
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 4
Polygon 6:
   Perimeter: 62.4
   Area: 243.36
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 5
Polygon 7:
   Perimeter: 59.2
   Area: 219.04
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 6
Polygon 8:
   Perimeter: 56.0
   Area: 196.00
   Convex: yes
   Nb of invariant rotations: 4
```

```
Depth: 7
Polygon 9:
   Perimeter: 52.8
                    程序代写代做 CS编程辅导
   Area: 174.24
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 8
Polygon 10:
   Perimeter: 49.6
   Area: 153.76
   Convex: yes
   Nb of invariant rot
   Depth: 9
Polygon 11:
   Perimeter: 46.4
   Area: 134.56
   Convex: yes
   Nb of invariant rotatione Chat: cstutores
   Depth: 10
Polygon 12:
   Perimeter: 43.2
                    Assignment Project Exam Help
   Area: 116.64
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 11
                    Email: tutorcs@163.com
Polygon 13:
   Perimeter: 40.0
   Area: 100.00
   Convex: yes
   Nb of invariant rot tibes 4 749389476
   Depth: 12
Polygon 14:
   Perimeter: 36.8
                    https://tutorcs.com
   Area: 84.64
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 13
Polygon 15:
   Perimeter: 33.6
   Area: 70.56
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 14
Polygon 16:
   Perimeter: 30.4
   Area: 57.76
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 15
Polygon 17:
   Perimeter: 27.2
   Area: 46.24
   Convex: yes
   Nb of invariant rotations: 4
```

```
Depth: 16
Polygon 18:
   Perimeter: 24.0
                    程序代写代做 CS编程辅导
   Area: 36.00
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 17
Polygon 19:
   Perimeter: 20.8
   Area: 27.04
   Convex: yes
   Nb of invariant rot
   Depth: 18
Polygon 20:
   Perimeter: 17.6
   Area: 19.36
   Convex: yes
   Nb of invariant rotations Chat: cstutores
   Depth: 19
Polygon 21:
   Perimeter: 14.4
                    Assignment Project Exam Help
   Area: 12.96
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 20
                   Email: tutorcs@163.com
Polygon 22:
   Perimeter: 11.2
   Area: 7.84
   Convex: yes
   Nb of invariant rot tipes: 4749389476
   Depth: 21
Polygon 23:
   Perimeter: 8.0
                    https://tutorcs.com
   Area: 4.00
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 22
Polygon 24:
   Perimeter: 4.8
   Area: 1.44
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 23
Polygon 25:
   Perimeter: 1.6
   Area: 0.16
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 24
>>> polys.display()
```

The effect of executing polys.display() is to produce a file named polys\_1.tex that can be given as argument to pdflatex to produce a file named polys\_1.pdf that views as follows.



3.2. **Second example.** The file polys\_2.txt has the following contents:

```
CS编程辅导
0110011111111111111111
01110011111111111111111
01111001111111111111111
011111001111111111111111
011111100111111111111111
0111111100111111111111111
011111111001111111111111
```

```
$ python3
                     程序代写代做 CS编程辅导
. . .
>>> from polygons import
>>> polys = Polygons('polys_2.txt')
>>> polys.analyse()
Polygon 1:
   Perimeter: 37.6 +
   Area: 176.64
   Convex: no
   Nb of invariant rot
   Depth: 0
Polygon 2:
   Perimeter: 17.6 + 42*sqrt
   Area: 73.92
   Convex: yes
   Nb of invariant rotations (That: cstutores
   Depth: 1
Polygon 3:
   Perimeter: 16.0 + 38*sqrt(.32)
                    Assignment Project Exam Help
   Area: 60.80
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 2
                     Email: tutorcs@163.com
Polygon 4:
   Perimeter: 16.0 + 40*sqrt(.32)
   Area: 64.00
   Convex: yes
   Nb of invariant rotations: 1749389476
   Depth: 0
Polygon 5:
   Perimeter: 14.4 + 34*sqrt(.32)
                    https://tutorcs.com
   Area: 48.96
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 3
Polygon 6:
   Perimeter: 16.0 + 40*sqrt(.32)
   Area: 64.00
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 0
Polygon 7:
   Perimeter: 12.8 + 30*sqrt(.32)
   Area: 38.40
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 4
Polygon 8:
   Perimeter: 14.4 + 36*sqrt(.32)
   Area: 51.84
   Convex: yes
   Nb of invariant rotations: 1
```

```
Depth: 1
Polygon 9:
   Perimeter: 11.2 + 26*sgrt(.32)
Area: 29.12 程序代写代做 CS编程辅导
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 5
Polygon 10:
   Perimeter: 14.4 +
   Area: 51.84
   Convex: yes
   Nb of invariant rot
   Depth: 1
Polygon 11:
   Perimeter: 9.6 + 22♥
   Area: 21.12
   Convex: yes
   Nb of invariant rotations Chat: cstutores
   Depth: 6
Polygon 12:
   Perimeter: 12.8 + 32*sqrt(.32)
                     Assignment Project Exam Help
   Area: 40.96
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 2
                     Email: tutorcs@163.com
Polygon 13:
   Perimeter: 8.0 + 18*so
   Area: 14.40
   Convex: yes
   Nb of invariant rot tibes: 1749389476
   Depth: 7
Polygon 14:
   Perimeter: 12.8 + 32*sqrt(.32)
                     https://tutorcs.com
   Area: 40.96
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 2
Polygon 15:
   Perimeter: 6.4 + 14*sqrt(.32)
   Area: 8.96
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 8
Polygon 16:
   Perimeter: 11.2 + 28*sqrt(.32)
   Area: 31.36
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 3
Polygon 17:
   Perimeter: 4.8 + 10*sqrt(.32)
   Area: 4.80
   Convex: yes
   Nb of invariant rotations: 1
```

```
Depth: 9
Polygon 18:
   Perimeter: 11.2 + 28*sgrt(32)
Area: 31.36 程序代写代做 CS编程辅导
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 3
Polygon 19:
   Perimeter: 3.2 + 6
   Area: 1.92
   Convex: yes
   Nb of invariant rot
   Depth: 10
Polygon 20:
   Perimeter: 9.6 + 24♥
   Area: 23.04
   Convex: yes
   Nb of invariant rotations Chat: cstutores
   Depth: 4
Polygon 21:
   Perimeter: 1.6 + 2*sqrt(.32)
                     Assignment Project Exam Help
   Area: 0.32
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 11
                     Email: tutorcs@163.com
Polygon 22:
   Perimeter: 9.6 + 24*sq
   Area: 23.04
   Convex: yes
   Nb of invariant rot tibes: 1749389476
   Depth: 4
Polygon 23:
   Perimeter: 8.0 + 20*sqrt(.32)
                     https://tutorcs.com
   Area: 16.00
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 5
Polygon 24:
   Perimeter: 8.0 + 20*sqrt(.32)
   Area: 16.00
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 5
Polygon 25:
   Perimeter: 6.4 + 16*sqrt(.32)
   Area: 10.24
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 6
Polygon 26:
   Perimeter: 6.4 + 16*sqrt(.32)
   Area: 10.24
   Convex: yes
   Nb of invariant rotations: 1
```

```
Depth: 6
Polygon 27:
   Perimeter: 4.8 + 12*sgrt(.32)
Area: 5.76 程序代写代做 CS编程辅导
   Nb of invariant rotations: 1
   Depth: 7
Polygon 28:
   Perimeter: 4.8 + 12
   Area: 5.76
   Convex: yes
   Nb of invariant rot
   Depth: 7
Polygon 29:
   Perimeter: 3.2 + 8*$
   Area: 2.56
   Convex: yes
   Nb of invariant rotations Chat: cstutores
   Depth: 8
Polygon 30:
   Perimeter: 3.2 + 8*sqrt(.32)
                     Assignment Project Exam Help
   Area: 2.56
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 8
                     Email: tutorcs@163.com
Polygon 31:
   Perimeter: 1.6 + 4*s
   Area: 0.64
   Convex: yes
   Nb of invariant rot tibes: 1749389476
   Depth: 9
Polygon 32:
   Perimeter: 1.6 + 4*sqrt(.32)
                     https://tutorcs.com
   Area: 0.64
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 9
Polygon 33:
   Perimeter: 17.6 + 42*sqrt(.32)
   Area: 73.92
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 1
Polygon 34:
   Perimeter: 16.0 + 38*sqrt(.32)
   Area: 60.80
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 2
Polygon 35:
   Perimeter: 14.4 + 34*sqrt(.32)
   Area: 48.96
   Convex: yes
   Nb of invariant rotations: 1
```

```
Depth: 3
Polygon 36:
   Perimeter: 12.8 + 30*sgrt(32)
Area: 38.40 程序代写代做 CS编程辅导
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 4
Polygon 37:
   Perimeter: 11.2 +
   Area: 29.12
   Convex: yes
   Nb of invariant rot
   Depth: 5
Polygon 38:
   Perimeter: 9.6 + 22♥
   Area: 21.12
   Convex: yes
   Nb of invariant rotations Chat: cstutores
   Depth: 6
Polygon 39:
   Perimeter: 8.0 + 18*sqrt(.32)
                     Assignment Project Exam Help
   Area: 14.40
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 7
                     Email: tutorcs@163.com
Polygon 40:
   Perimeter: 6.4 + 14*so
   Area: 8.96
   Convex: yes
   Nb of invariant rot tipes: 1749389476
   Depth: 8
Polygon 41:
   Perimeter: 4.8 + 10*sqrt(.32)
                    https://tutorcs.com
   Area: 4.80
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 9
Polygon 42:
   Perimeter: 3.2 + 6*sqrt(.32)
   Area: 1.92
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 10
Polygon 43:
   Perimeter: 1.6 + 2*sqrt(.32)
   Area: 0.32
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 11
>>> polys.display()
```

The effect of executing polys.display() is to produce a file named polys\_2.tex that can be given as argument to pdflatex to produce a file named polys\_2.pdf that views as follows.



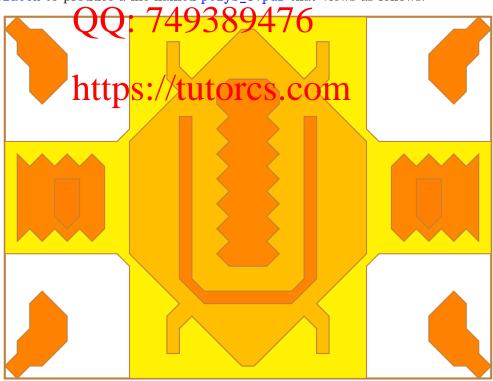
3.3. **Third example.** The file polys\_3.txt has the following contents:



```
$ python3
                    程序代写代做 CS编程辅导
>>> from polygons import
>>> polys = Polygons('polys_3.txt')
>>> polys.analyse()
Polygon 1:
   Perimeter: 2.4 + 9*
   Area: 2.80
   Convex: no
   Nb of invariant rot
   Depth: 0
Polygon 2:
   Perimeter: 51.2 + 4*sqrt
   Area: 117.28
   Convex: no
   Nb of invariant rotations 2 hat: cstutorcs
   Depth: 0
Polygon 3:
   Perimeter: 2.4 + 9*sqrt(.32)
                    Assignment Project Exam Help
   Area: 2.80
   Convex: no
   Nb of invariant rotations: 1
   Depth: 0
                     Email: tutorcs@163.com
Polygon 4:
   Perimeter: 17.6 + 40*sqrt(.32)
   Area: 59.04
   Convex: no
   Nb of invariant rot tipes: 2749389476
   Depth: 1
Polygon 5:
   Perimeter: 3.2 + 28*sqrt(.32)
                    https://tutorcs.com
   Area: 9.76
   Convex: no
   Nb of invariant rotations: 1
   Depth: 2
Polygon 6:
   Perimeter: 27.2 + 6*sqrt(.32)
   Area: 5.76
   Convex: no
   Nb of invariant rotations: 1
   Depth: 2
Polygon 7:
   Perimeter: 4.8 + 14*sqrt(.32)
   Area: 6.72
   Convex: no
   Nb of invariant rotations: 1
   Depth: 1
Polygon 8:
   Perimeter: 4.8 + 14*sqrt(.32)
   Area: 6.72
   Convex: no
   Nb of invariant rotations: 1
```

Depth: 1 Polygon 9: Perimeter: 3.2 + 2\*sgrt(.32) Area: 1.12 程序代写代做 CS编程辅导 Nb of invariant rotations: 1 Depth: 2 Polygon 10: Perimeter: 3.2 + Area: 1.12 Convex: yes Nb of invariant rot Depth: 2 Polygon 11: Perimeter: 2.4 + 9\*Area: 2.80 Convex: no Nb of invariant rotations Chat: cstutores Depth: 0 Polygon 12: Perimeter: 2.4 + 9\*sqrt(.32)Assignment Project Exam Help Area: 2.80 Convex: no Nb of invariant rotations: 1 Depth: 0 Email: tutorcs@163.com >>> polys.display()

The effect of executing polys.display() is to produce a file named polys\_3.tex that can be given as argument to pdflatex to produce a file named polys\_3.pdf that views as follows.



3.4. Fourth example. The file polys\_4.txt has the following contents:



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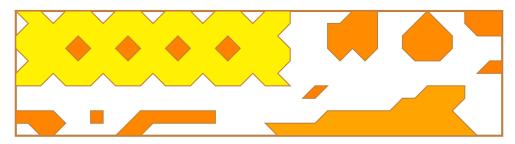
https://tutorcs.com

```
$ python3
                     程序代写代做 CS编程辅导
>>> from polygons import
>>> polys = Polygons('polys_4.txt')
>>> polys.analyse()
Polygon 1:
   Perimeter: 11.2 +
   Area: 18.88
   Convex: no
   Nb of invariant rot
   Depth: 0
Polygon 2:
   Perimeter: 3.2 + 5*sqrt
   Area: 2.00
   Convex: no
   Nb of invariant rotations (That: cstutores
   Depth: 0
Polygon 3:
   Perimeter: 1.6 + 6*sqrt(.32)
                     Assignment Project Exam Help
   Area: 1.76
   Convex: yes
   Nb of invariant rotations: 1
   Depth: 0
                     Email: tutorcs@163.com
Polygon 4:
   Perimeter: 3.2 + 1*sqrt(.32)
   Area: 0.88
   Convex: yes
   Nb of invariant rotations: 1749389476
   Depth: 0
Polygon 5:
   Perimeter: 4*sqrt(.32)
Area: 0.32

https://tutorcs.com
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 1
Polygon 6:
   Perimeter: 4*sqrt(.32)
   Area: 0.32
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 1
Polygon 7:
   Perimeter: 4*sqrt(.32)
   Area: 0.32
   Convex: yes
   Nb of invariant rotations: 4
   Depth: 1
Polygon 8:
   Perimeter: 4*sqrt(.32)
   Area: 0.32
   Convex: yes
   Nb of invariant rotations: 4
```

```
Depth: 1
Polygon 9:
   Perimeter: 1.6 + 1*sqrt(.32)
Area: 0.24 程序代写代做 CS编程辅导
   Nb of invariant rotations: 1
   Depth: 0
Polygon 10:
   Perimeter: 0.8 + 2
   Area: 0.16
   Convex: yes
   Nb of invariant rot
   Depth: 0
Polygon 11:
   Perimeter: 12.0 + 7
   Area: 5.68
   Convex: no
   Nb of invariant rotations Chat: cstutores
   Depth: 0
Polygon 12:
   Perimeter: 2.4 + 3*sqrt(.32)
                    Assignment Project Exam Help
   Area: 0.88
   Convex: no
   Nb of invariant rotations: 1
   Depth: 0
                   Email: tutorcs@163.com
Polygon 13:
   Perimeter: 1.6
   Area: 0.16
   Convex: yes
   Nb of invariant rot tipes: 4749389476
   Depth: 0
Polygon 14:
   Perimeter: 5.6 + 3*sqrt(.32)
                   https://tutorcs.com
   Area: 1.36
   Convex: no
   Nb of invariant rotations: 1
   Depth: 0
>>> polys.display()
```

The effect of executing polys.display() is to produce a file named polys\_4.tex that can be given as argument to pdflatex to produce a file named polys\_4.pdf that views as follows.



#### 4. Detailed description

4.1. **Input.** The input is expected to consist of  $y_{dim}$  lines of  $x_{dim}$  0's and 1's, where  $x_{dim}$  and  $y_{dim}$  are at least equal to 2 and at most consist of with Essibly lines consisting of spaces of the handless with digits. If n is the  $x^{th}$  digit of the  $y^{th}$  line with digits, with  $0 \le x < x_{dim}$  and  $0 \le y < y_{dim}$ , then n is to be associated with a point situated  $x \times 0.4$  cm to the right and  $y \times 0.4$  cm below an origin.

4.2. Output. Consider exercise the statement from polygons import \* followed by the statement polys = the statement from polygons import \* followed by the statement polys = the statement from polygons import \* followed by the statement polys = the statement from polygons import \* followed by the statement polys = polygons (some\_filename does not exist in the working directory, then Python will the statement from polygons import \* followed by the working directory, then Python will the working directory, then Python will the working directory, then Python will the working directory and the same polygons (some\_filename) that it does not contain the same number of digits contains digits, or in that two of its lines of digits do not contain the same number of digits, then the effect of executing polys = Polygons(some\_filename) should be to generate a PolygonsError exception that reads

Traceback (most recent Wethat: cstutorcs polygons.PolygonsError: Incorrect input.

If the previous conditions hold but it is not possible to us all 1's in the input and make them the contours of polygons of depth d, for any natural minute. It defined in the general presentation, then the effect of executing polys = Polygons(some\_filename) should be to generate a PolygonsError exception that reads

Traceback (most recent call last): tutorcs@163.com polygons.PolygonsError: Cannot get polygons as expected.

If the input is correct and it is possible to use all 1's in the input and make them the contours of polygons of depth d, for any natural number d, as defined to be reveral presentation, then executing the statement polys = Polygons(some\_fitename) followed by polys.analyse() should have the effect of outputting a first line that reads

Polygon N: https://tutorcs.com

with N an appropriate integer at feast equal to 1 to refer to the N'th polygon listed in the order of polygons with highest point from smallest value of y to largest value of y, and for a given value of y, from smallest value of x to largest value of x, a second line that reads one of

Perimeter: a + b\*sqrt(.32)

Perimeter: a

Perimeter: b\*sqrt(.32)

with a an appropriate strictly positive floating point number with 1 digit after the decimal point and b an appropriate strictly positive integer, a third line that reads

Area: a

with a an appropriate floating point number with 2 digits after the decimal point, a fourth line that reads one of

Convex: yes Convex: no

a fifth line that reads

Nb of invariant rotations: N

with N an appropriate integer at least equal to 1, and a sixth line that reads

#### Depth: N

## with N an appropriate positi起源低端吗.代做 CS编程辅导

Pay attention to the expected format, including spaces.

If the input is correct and it is result to use all 1's in the input and make them the contours of polygons of depth d, for any needs to be given as argument to pdflatex to generate a file named some\_filename.pdf. The part of the show you what some\_filename.tex should contain.

- The point that determine the line segments that make up the polygon, in a clockwise manner.
- A polygons's colour is determined by its area. The largest polygons are yellow. The smallest polygons are orange. Polygons in between mix orange and yellow in proportion of their area. For instance, a polygon whose size is 25% the difference of the size between the largest and the smallest polygon will receive 25% of orange (and 75% of yellow). That proportion is computed as an integer. When the value is not an integer, it is rounded to the closest integer, with values of the form z.5 rounded up to z+1.

Pay attention to the expected Son Qiddidin Spaces and bank tires. Lives Matsari with the comments. The output of your program redirected to a file will be compared with the expected output saved in a file (of a different name of course) using the diff command. For your program to pass the associated test, diff should silently exit, which requires that the contents of both files be absolutely identical, character for character, including spaces and blank lines distribution for the provide Dample Oling the associated text files, renaming them as they have the names of the files expected to be generated by your program.

QQ: 749389476

https://tutorcs.com