Specialist English: Assignment 1

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Abstract

This is my abstract. It's not very long. Hello world!

1 mathematics

1.1 Inline mathematics

This is a inline mathematics $y = \pm\sqrt{x^2 - 1}$

1.2 displayed equations

This is a displayed equations

$$\frac{\pi}{4} = \sum_{k=1}^{\infty} \frac{(-1)^{k+1}}{2k-1}.$$

2 A simple table

This is a simple table. Look at Table 1—it's great!

iPhone XS	iPhone XS Max	iPhone XR
Silver, space gray, and gold	Silver, space gray, and gold	Black, white, blue, coral, yellow, and (PRODUCT)RED
5.8-inch Super Retina HD display with HDR and True Tone1	6.5-inch Super Retina HD display with HDR and True Tone	6.1-inch Liquid Retina HD display with True Tone1

Table 1: Compare iPhone models

3 A figure of an image

This is a figure of an image. Figure 1 shows an example of a portable CD player.

Figure 1: A portable CD player. Image source: `https://commons.wikimedia.org/wiki/File:Panasonic_SL-S250C_with_Philips_LC0305_20110106.jpg`

4 A short algorithm

Algorithm 1 is the Euclidean algorithm.

5 Two citations

5.1 To a conference paper

This is a citation to a conference paper [1].

Algorithm 1

Input: $a \in Z$, and $b \in Z$

Output: the greatest common divisor of a and b
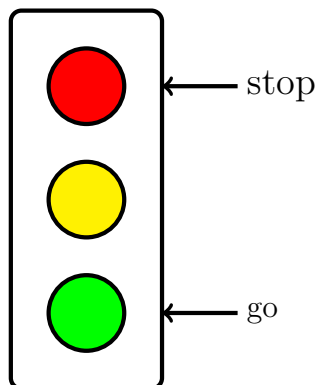
  1: Set $x \leftarrow a$
  2: Set $y \leftarrow b$
  3: **while** $y \neq 0$ **do**
  4:     Set $t \leftarrow y$
  5:     $y \leftarrow x \bmod y$
  6:     $x \leftarrow t$
  7: **end while**
  8: **return** x
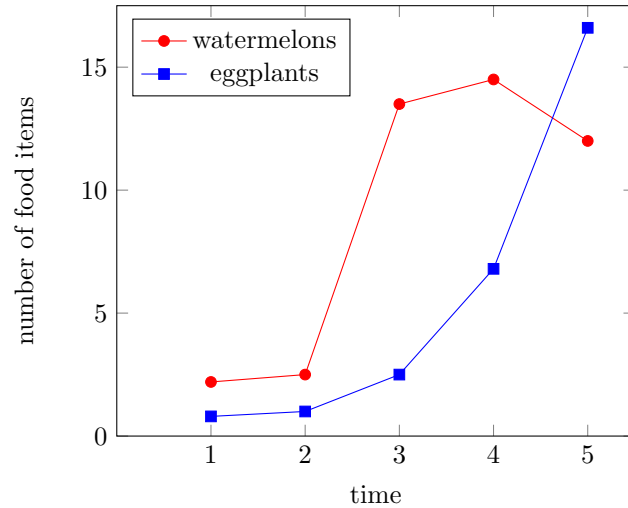
5.2 To a journal paper

This is a citation to a journal paper [2].

6 One of the following

6.1 (a) Typeset a image using tikz

6.2 (b) Make a simple data plot using pgfplots

References

[1] Ran Gilad-Bachrach, Nathan Dowlin, Kim Laine, Kristin E. Lauter, Michael Naehrig, and John Wernsing. Cryptonets: Applying neural networks to encrypted data with high throughput and accuracy. In *Proceedings of the 33nd International Conference on Machine Learning, ICML 2016, New York City, NY, USA, June 19-24, 2016*, pages 201–210, 2016.

[2] J. Wang, J. Wei, Z. Yang, and S. Wang. Feature selection by maximizing independent classification information. *IEEE Transactions on Knowledge and Data Engineering*, 29(4):828–841, 2017.