Specialist English: Assignment 1

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There will be 10 short assignments in this course, each worth 5% of the final mark. This first assignment is to demonstrate basic LaTeX skills.

Please email me your assignment with: (a) the LaTeX source code (.tex), (b) the BibTeX file (.bib), and (c) the compiled .pdf document. This is an English course; your assignment needs to be in English (unless otherwise specified).

The task is to write a **mock paper** using LaTeX (1 or 2 pages). The contents do not matter (we're just practicing), but it should look vaguely like a computer science paper. It needs to contain the following:

1. Title, author name, date, and abstract. Sections and subsections. [2 marks]

2. Inline mathematics (e.g., $y = \pm\sqrt{x^2 - 1}$) and displayed equations, e.g., [1 mark]

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

3. A simple table related to computer science, referenced in the main text (using `\label{...}` and `\ref{...}`). [1 mark]

   (E.g., list a few specifications of three Apple iPhone models[1].)

4. A figure of an image related to computer science, referenced in the main text. [1 mark]

   (Wikimedia Commons has suitable images: `commons.wikimedia.org`. Attribute images to their source, e.g., write "Image source: ...".)

5. A short algorithm. [1 mark]

   (I recommend the Euclidean algorithm[2].)

6. A citation to a conference paper, and a citation to a journal paper. [1 mark]

7. *One of the following* (if you do both, I'll award the mark from the best answer): [3 marks]

   (a) Typeset this image using tikz (`\usepackage{tikz}`):

   (b) 1. Write the first three letters of the Greek alphabet (uppercase and lowercase), 2. Write my co-authors names: "Raúl M. Falcón" and "Carlo Hämäläinen", and 3. Write three colors in Chinese in that color (e.g. 蓝色 绿色 红色).

(I'm expecting you to search online to work out how to do things I haven't explained. Realistically, this is how we write LaTeX code.)

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[1] `https://www.apple.com/iphone/compare/`

[2] `https://en.wikipedia.org/wiki/Euclidean_algorithm#Implementations`