English for the Students of Computer

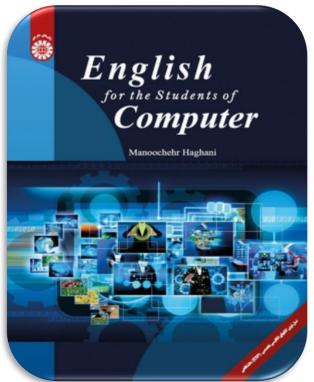
```
Student me = Student();

while (me.alive()) {
    me.sleep();
    continue;
    me.eat();
    me.practice();
    me.work();
    me.makeacontributiontosociety();
    me.beproductive();
    me.doliterallyanything();
}
```









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by

Manoochehr Haghani

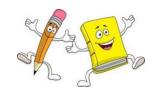


Grammar Points

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YOU ARE MAKING A DIFFERENCE



- Clause: a group of words that has a subject and a verb.
- Change can be challenging. (independent: expresses a complete idea)
- Manufacturing facilities have enough flexibility. (independent)
- ... when material handling is assured by automated devices ...
 (dependent/subordinate: does not express a complete idea)
- Although cellular factories can be quite effective ... (dependent)





GOOD THINGS COME

TO THOSE WHO

WORK FOR IT

- Relative Clause: a clause that describes a noun or pronoun.
- ✓ A relative clause starts with relative pronouns such as:
- who (people), when (time), whom (people), where (place), which (things), that (things and people), why (reason),

 The presence of interconnected porosity is the reason why plastic or resin impregnation is used for Powder Metallurgy parts.



Jeach me
to feel again,
in all the ways
that Ive forgotten.

- A Net-based resource management system carries out the service provider role. (adj)
- A resource management system which is Net-based carries out the service provider role. (relative clause)
- 1. Defining relative clause: gives us essential information to identify who or what we are speaking about; we cannot omit it.
- The book that we read for this course is very informative.
- Let's go to the park when it's sunny.

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- Note: in defining clauses, we can omit 'who', 'which', and 'that', if they are followed by a subject.
- Complex systems need testing to ensure that they work as they are intended.
- are intended.



THE PAIN YOU FEEL TODAY WILL BE THE STRENGTH YOU FEEL TOMORROW.





- We don't usually omit 'who', 'which', and 'that' when they are followed by a verb:
- You may be able to construct a properly parameterized subroutine that saves space.



Never give up on anything that makes your heart soar.

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- 2. Non-defining relative clause: adds more information about who/what we are speaking about; it is between commas; we can omit it.
- A Computer-Based Information System, which is defined as an information system in which the computer plays a major role, consists of hardware, software, data, procedures, and people.
- My mother who has brown hair, is standing there main clause relative clause main clause

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Reduced Relative Clauses

There are two ways in which a relative clause is reduced:

- 1. If the relative clause contains "to be verb", omit the subject pronoun (which; that; who) and the "to be verb":
- The cloud platforms have profoundly changed the requirements which are imposed on data integration technology.
- The cloud platforms have profoundly changed the requirements imposed on data integration technology.



Reduced Relative Clauses

- Ethical hacking is the practice of finding security hazards and reporting them to the people who are responsible.
- Ethical hacking is the practice of finding security hazards and reporting them to the people responsible.



- A module is a part of a program that is written and tested.
- A module is a part of a written and tested program.



Reduced Relative Clauses

- 2. If there is no "to be verb" in the relative clause, it is possible to omit the subject pronoun (that, which, who) and add -ing to the end of the verb:
- pro is a suffix which indicates that a web or e-mail address belongs to a licensed professional, such as a lawyer.
- .pro is a suffix indicating that a web or e-mail address belongs to a licensed professional, such as a lawyer.





- In noun + noun structures, the first noun is normally singular in form and describes the second noun. This noun is called a noun modifier.
- A software company (= a company that produces software)
- An identification code (= a code that identifies sb/sth)



The most powerful leadership tool you have is your personal example.

John Wooden





1. Nouns

- As subject of the sentence
- As object of the sentence
- After articles (e.g., the/a/an) and prepositions
- As modifiers before nouns (e.g., clothing manufacturers, car factory)
- Many people use their signature file ("sig file") as a means of artistic expression.





- 2. Adjectives
- -To describe nouns
- -To describe linking verbs
- 1. To be verbs (am, is, are, were, was, ...)

The program is complex.

2. Verbs of senses (smell, taste, sound, look, ...)

Normally, a photographic negative looks right (not flipped).



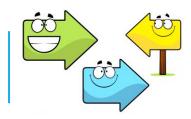


3. Become, grow, get, turn, ...

- Sufficiently advanced technology will become indistinguishable from magic.

3. Adverbs

- To describe adjectives (e.g., very user-friendly)
- To describe verbs (e.g., grows rapidly)
- To describe adverbs (e.g., more or less independently)



- Note: Adverbs can go in the front, mid (between the subject and the main verb, or after the modal verb or first auxiliary verb), and end position of a sentence.
- Today, Epson makes high-quality color inkjet printers (adverb at the beginning of the sentence)
- Emoticons are often used in electronic mails. (adverb in the middle of the sentence)
- EPROMS can be programmed electrically. (adverb at the end of the sentence)





4. Verbs

- To describe states (e.g., smell, taste, am, is, are, ...)

Intel is teaching a computer chip to smell.

- To describe actions (e.g., talk, walk, listen, ...)

The key idea is never to write a long computer program without ascertaining whether it will work.



1. When the performer of an action is unimportant, or unknown:

Most applications have been modified to utilize clouds.

2. To be impersonal in scientific and technical texts:

Various development programs were established under the umbrella of IUT.

3. To move the most important information to the beginning of the sentence:

The f-ratio determines the brightness of the image formed by the lens.



Passive Voice (Structure)

Present simple tense: to talk about habits, routines, general truths and scientific facts

- Active: (simple verb/ verb+ 's' or 'es' for 3rd person singular):
- They design the program to handle massively parallel operations.

- Passive (am/is/are + p.p.):
- The program is designed to handle massively parallel operations.





Present continuous tense: to talk about an ongoing action and future plans

- Active (am/is/are + verb+ ing):
- They are designing the program to handle massively parallel operations.
- Passive (am/is/are + being + p.p.):
- The program is being designed to handle massively parallel operations.





- O Past simple tense: to talk about finished events in the past
- Active: (verb+ 'd' or 'ed'/ irregular verb):
- They designed the program to handle massively parallel operations.
- Passive (were/was + p.p.):
- The program was designed to handle massively parallel operations.





Past continuous tense: to talk about an ongoing action in the past

- Active: (were/was+ verb+ ing):
- They were designing the program to handle massively parallel operations.
- Passive (were/was+ being + p.p.):
- The program was being designed to handle massively parallel operations.





Present perfect simple tense: to talk about an action started in the past and continued to the present

- Active: (have/has+ p.p.):
- They have designed the program to handle massively parallel operations.
- Passive (have/has+ been + p.p.):
- The program has been designed to handle massively parallel operations.





Past perfect simple tense: to describe an action that happened before another in the past

- Active: (had+ p.p.):
- They had designed the program to handle massively parallel operations.
- Passive (had+ been + p.p.):
- The program had been designed to handle massively parallel operations.





Future simple tense: to talk about sth that has not happened yet

- Active: (will + simple verb):
- They will design the program to handle massively parallel operations.
- Passive (will+ be + p.p.):
- The program will be designed to handle massively parallel operations.





Passive Modal:

- Active: (modal + simple verb)
- They may/must/can design the program to handle massively parallel operations.
- Passive (modal (may, can, should, must, ...)+ be + p.p.):
- The program may/ must/ can be designed to handle massively parallel operations.





The Passive Form of Infinitives (Present Tense): to be + p.p.

I don't expect to be invited to the party.

He is hoping to be elected president.

The Passive Form of Infinitives (Past Tense): to have been + p.p.

- She was happy to have been invited to the party.
- They were hoping to have been paid early.



- When words or phrases that have the **same** grammatical function are connected by the coordinating conjunctions 'and', 'or', 'but', and 'nor'.
- She loves apples and bananas.
- She types slowly but accurately.
- Our main need is not **food**, nor **money**. It is education.
- I don't enjoy running or playing.



Parallel Structures

 Correlative conjunctions: They join two or more elements together. The most common correlative conjunctions:

1. Either ... or

- Let's either go swimming or go shopping.
- I want to paint my room either pink or green.

2. Both ... and

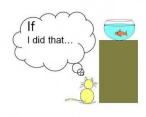
I both cleaned my room and did the dishes.



I'd like to have both pizza and coffee.

3. Neither ... nor

- I have neither the time nor the patience for cooking.
- She is neither listening nor taking notes.
- 4. Not only ... but also
- She is not only bright but also hard-working.
- She not only **apologized** but also **sent** me a present.







Zero: real and possible events; a general situation

If we heat water to 100 degrees centigrade, it boils.

First: real and possible events; a particular situation

If I have free time, I will go to the party.

Second: imaginary; present tense

If I had enough money, I would buy that book.

Third: imaginary; past tense

If they had invited me, I would have gone there.



Present and Past Participle Adjectives



- The present participle can act as an adjective with an active meaning. The noun it modifies performs an action:
- It is a confusing problem. (the problem does sth: it confuses)
- The past participle can serve as an adjective with a passive meaning:
- They are confused students. (the students are confused by sth)



Gerunds as Objects of Preposition



- A gerund is frequently used as the object of a preposition.
- She is interested in learning English.
- The teacher is responsible for teaching the students.





Count and Non-Count Nouns

- A count noun may be preceded by 'an', 'a', or 'one' in the singular and it takes '-s' or '-es' in the plural.
- A non-count noun is not immediately preceded by 'a/an/one' and it has no plural form.
- Some common categories of non-count nouns:

1.Whole groups made up of similar items (equipment, hardware, software, traffic, ...)

2. Fluids (water, oil, milk, ...)



Count and Non-Count Nouns

- 3. Solids (iron, gold, silver, ...)
- 4. Gases (air, oxygen, nitrogen, ...)
- 5. Particles (sugar, sand, rice, ...)
- 6. Fields of study (Chemistry, engineering, History, ...)
- 7. Natural events (weather, rain, snow, ...)









- Skimming: reading a text quickly in order to get the general/main idea
- 1. Do not read everything; move your eyes quickly over the text
- 2. Read the title
- 3. Read the headings and subheadings
- 4. Read the first and last sentences of each paragraph
- 5. Look at the boldfaced, underlined and italic words



Skimming

- 6. Look at the keywords (the repeated words)
- 7. Look at the tables, figures, and diagrams

The word capitalism is now quite commonly used to describe the social system in which we now live. It is also often assumed that it has existed, if not forever, then for most of haman history. In fact, capitalism is a relatively new social system. For a brief historical account of how capitalism cames into existence a couple of hundred years ago, see Marx and Engels? Communist Manifests, Datt what exactly does capitalism 'mean?"

Class division

Capitalism is the social system which now exists in all countries of the world. Under this system, the means for producing and distributing goods (the land, factories, technology, transport system etc) are owned by a small minority of people. We refer to this group of people as the capitalist class. The majority of people must sell their ability to work in return for a wage or slarry (who we refer to as the working class.)

The working class are paid to produce goods and services which are then sold for a profit. The profit is gained by the capitalist class because they can make more money selling what we have produced than we cost to buy on the labour market. In this sense, the working class are exploited by the capitalist class. The capitalists live off the profits they obtain from exploiting the working class whilst reinvesting some of their profits for the further accumulation of wealth.

The profit motive

In capitalism, the motive for producing goods and services is to sell them for a profit, not to satisfy people's needs. The products of capitalist production have to find a buyer, of course, but this is only incidental to the main aim of making a profit, of ending up with more money than was originally invested. This is not a theory that we have thought up but a fact you can easily confirm for yourself by reading the financial paiding the financial paid.

The capitalists calculate can be sold at a profit. Those goods may satisfy human needs but those needs will not be met if people do not have sufficient money.

Attentively read the first and the last paragraphs

Read only the first sentence. "Drop down" to the end, looking for key details

Main Idea



Finding the Main Idea & Topic

- ➤ Main idea: a complete sentence that summarizes the whole paragraph or text; it includes the topic and what the author wants to say about it.
- ➤ Topic: the general subject of a paragraph or text which is described with just a word or a phrase
- ➤ Keywords: Mainly- primarily- the main focus- general idea revolves around- concludes- discusses- primary- the best topic the best title...

Main idea

Finding the Main Idea & Topic

- ✓ Read the beginning and concluding sentences
- √ Ask questions (who; what; when; where; ...)
- ✓ Read the titles and subtitles
- √ Look at the tables and diagrams
- √ Look at the underlined, boldfaced and italic words
- √ Highlight or underline important information
- ✓ Write a summary or rewrite the text in your own words



Scanning

Scanning: reading a text quickly to find specific information (keywords; specific words; names; or details)

- 1. If the text is completely unknown to you, skim the whole text first to get the general idea
- 2. Read each question carefully
- 3. Find the keywords in the question (why, what, ...)
- 4. Read the text quickly to find the answers to the questions



Scanning

What is Capitalism?

The word capitalism is now quite commonly used to describe the social system in which we now live. It is also often assumed that it has existed, if not forever, then for most of human history. In fact, capitalism is a relatively new social system. For a brief historical account of how capitalism came into existence a couple of hundred years ago, see Marx and Engels' Communist Manifesto. But what exactly does 'capitalism' mean?

Class division

Capitalism is the social system which now on the mall countries of the world. Under this system, the means for producing and districting goods (means), factories, technology, transport system etc) are owned by a small minority of people. We refer to this group of people as the capitalist class. The majority of people must sell their ability to work a return for a wage or salary (who we refer to as the working class.)

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The profit motive

In capitalism, the motive for producing goods and services is to sell them for a profit not to satisfy people's needs. The products of capitalist production have to find a buyer, of course, but this is only incidental to the main aim of making a profit, of ending up with more money than was originally invested. This is not a theory that we have thought up but a fact you can easily confirm for yourself by reading the financial press. Production is started not by what consumers are prepared to pay for to satisfy their needs but by what the capitalists calculate can be sold at a profit. Those goods may satisfy human needs but those needs will not be met if people do not have sufficient money.

You look for specific keywords



Making Inferences

Making inferences: to draw a logical conclusion based on what is not explicitly stated

- ☐ I failed the course. (my grade was below 10)
- ☐ I ate another sandwich. (I have eaten at least one sandwich before).
- ☐ Sample Inferencing Questions
- Key words: suggest, indicate, conclude, infer, imply, ...



Making Inferences

- \checkmark The passage suggests which of the following about X?
- √ We can conclude from paragraph x that ...
- ✓ Paragraph x suggests that ...
- \checkmark We can infer from paragraph x that ...
- √ This sentence implies that ...







Finding Pronoun References

- 1. Number (singular/plural)
- 2. Gender (male/female/neutral)
- 3. Meaning
- 4. Distance (usually the nearest word)





WHICH STEP HAVE YOU REACHED TODAY?





Guessing from the Context

Context (surrounding words and ideas) helps us to guess the meaning of unknown words

- ➤ Contrast:
- ✓ Rude behavior is not accepted. You should be polite instead.
- ➤ Examples:
- ✓ For example, someone who is not **rude** says 'please' before asking anybody to do something for them.



Guessing from the Context

- ➤ Synonyms:
- ✓ While giving a speech, poise and confidence matter the most.
- > Explanations:
- ✓ We can verify something by using different evidence and facts that prove it.



Linking/Connecting Words

- ☐ Special words and phrases to link different ideas, clauses or sentences
- ✓ Emphasis: indeed; particularly; clearly; especially; absolutely; generally, ...
- ✓ Addition: also; too; in addition; moreover; not only ... but also; furthermore; additionally; and, ...



- ✓ Contrast: unlike; on the other hand; whereas; however; yet; but, although, ...
- ✓ Result/ Conclusion: therefore; in conclusion; to summarize; as a result; thus; hence, thereby, ...
- ✓ Giving Examples: for example; for instance; such as; like, ...
- ✓ Explanation/ Reason: because; since; due to; because of; the reason why, ...



- > To add the meaning 'not' to the word:
- ☐ Un: unreal; unusual; unrelated; unpopular; unlikely; unsuitable; unexpected
- ☐ In: ineffective; incomplete; inexpensive; incapable
- □ Dis: dissimilar; dislike; disorganized; dishonest; disease
- ☐ Im: improbable; impolite; imperfect; impossible
- ☐ Ir: irregular; irrational; irresponsible



Affixes (Prefixes & Suffixes)

- ☐ De: deform; deactivate; degenerate
- > To add the meaning 'again':
- □ Re: reconnect; restart; reform; regenerate

Suffixes:

- Noun making suffixes:
- □ -ion: information; production; suggestion; connection



Affixes (Prefixes & Suffixes)

- □ -ness: happiness; sleepiness; drowsiness
- □ -ence/-ance: performance; difference
- -ment: development; management, equipment, government
- -er: programmer; computer; manager
- > Adjective making suffixes:
- -ous: continuous; dangerous; famous
- ☐ -tive: informative; productive; suggestive



Affixes (Prefixes & Suffixes)

- ☐ -ive: responsive; progressive
- ☐ al: experimental; developmental; mechanical
- □ -able/-ible: suitable; comfortable; portable
- > Verb making suffixes
- ☐ -ize: summarize; finalize; systematize; characterize
- -fy: classify; simplify; intensify

Thanks



Any Questions?

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