

# The Secret agent & The Recruit

Mohamed NASSIRI

“Rule number one : do not get caught.”<sup>1</sup>

Walter Burke (Al Pacino), The Recruit, 2003

## Introduction

February 12, 2019, the NSA (National Security Agency) declassified all documents about learning Python for engineers. A 395-page document is available on the website [www.coquillagesetpoincare.fr](http://www.coquillagesetpoincare.fr) clicking *Pour les fans de Python*. We are going to use this document to create a algorithm.



Before beginning the work, for each two-person team, nominate

- « The Secret agent » ;
- « The Recruit ».



*A little history*

The National Security Agency/Central Security Service (NSA/CSS) leads the U.S. Government in cryptology that encompasses both signals intelligence (SIGINT) and information assurance (now referred to as cybersecurity) products and services, and enables computer network operations (CNO) in order to gain a decision advantage for the Nation and our allies under all circumstances.



## First part : The recruitment

The Secret Agent have The Recruit take a test to join The Adjustment Bureau.

The recruit must be successful in rewriting of the algorithm given at The Secret Agent.

The Secret Agent will be as precise as possible in the explanations that The Recruit realize the algorithm.

The Secret Agent can't touch keyboard!



The Recruit must not see this following document ! It's confidential !

Lesson 07: Supplement (b) (3) - P.L. 86-36

Updated 11 months ago by [redacted] in COMP 3321

3 14:40

10x91

(U) Supplement to lesson 07 based on exercises from previous lectures.

Recommendations

You may have written a function like this to check if an item is in your grocery list and print something snarky if it's not:

```
def in_my_list(item):
    my_list = ['apples', 'milk', 'butter', 'orange juice']
    if item in my_list:
        return 'Got it!'
    else:
        return 'Nope!'

in_my_list('apples')
in_my_list('chocolate')
```



Call The Supervisor for checking.

## Second part : The collaboration

Congratulations New Agent! Now, you are going to work together. The Adjustment Bureau asks you to improve the algorithm.

In the new algorithm, there will be the name of our seven agents (Smith, Brown, Carter, Bond, Bourne, MacGyver, Fury).

Executing the algorithm, it must propose if there is a new agent and in the positive case, append this new agent in the previous list.

We will test the algorithm, at the end, writing for example `in_my_list('Bourne')` or `in_my_list('Johnny English')`.



*Call The Supervisor for checking.*

---

## Annex 1 : Vocabulary

French	English
Affectation	Assignment
Aller à la ligne	Start a new line
Boucle	Loop
Ça ne marche pas	It does not work
C'est faux	It's wrong
Deux points (ponctuation)	Colons
Ecrire	Write
Egal	Equal
Guillemets	Quotation marks
Indentation	Indentation
Parenthèse à droite	Right bracket
Parenthèse à gauche	Left bracket
Parenthèses	Brackets
Point	Dot
Remplacer	Substitute
Saisie	Input
si ... alors ... (sinon ...)	if ... then ... (else ...)
Sortie	Output
Virgule	Comma

## Annex 2 : Grammar

French	English
Il faut que j'aille à Paris	I have to go to Paris
Il faut que je le fasse	I must do it
Il fallait que je le fasse	I had to do it
Je ne dois pas faire mes devoirs	I mustn't do my homework
Je ne suis pas obligé de faire mes devoirs	I don't have to do my homework