

1337 coding school Lot 660 43150 Ben Guerir MOROCCO

ACADEMIC RESULTS FOR OMAR EL HOUMADI

I, the undersigned Larbi EL HILALI, Managing Director of 1337 coding school located at Lot 660, 43150 Ben Guerir, Morocco, hereby certify that:

Omar El Houmadi, born on March 06, 2001 in Tripoli (Libya)

obtained the grades detailed below as of March 22, 2024.

This certificate is delivered upon request for all legal intents and purposes.

Selected in: June 2022

Curriculum started on: October 05, 2022

Curriculum ended on: -

The progression of the student inside the curriculum is represented by its level, over 21.

The current level of the student is: 4.88.

The 42 curriculum is divided into two halves: the common core and the 42 advanced part. Once students complete the first half (the common core), they have the option to either continue their journey in the 42 advanced part, or conclude their progression and become an alumni at any point during this second part.

The current situation of the student is: in the Common Core.

See details below.

Made in Benguerir, on March 22, 2024

DETAILS

Here is a description of each part of the curriculum and the current position of the student:

The Common Core

The common core of the 42 curriculum represents the minimum set of skills to be ready for a first professional experience. It provides basic and standard coding skills, as well as a fruitful range of soft skills. The delay of the CC is approximately between 1 and 2 years. The following information represent the skills developed during this part of the curriculum and the current progression of the student:

Omar El Houmadi: Common core achieved at: 36%.

Developed skills during the entire common core:

• Algorithms & Al: Standards algorithms on standards structures: searching, sorting, insertion, deletion, balance, on:

arrays, linked lists, trees. State machine and asynchronous management.

• Graphics: Image management, RGB structure of an image, manipulating areas, drawing into an image, interacting with

the window management system and getting user events and inputs from keyboard and mouse, programming with

callbacks and event loop.

Group & interpersonal: Collaboration, relationships and group management situations, including different kinds of

interactions between people (friendly, tensions ...)

• Imperative programming: Basics of coding in C: the C syntax, variable, loops, conditional branches, functions,

recursivity, instructions, calculus and expressions, comparisons operators, standard and advanced types, strings

processing, structures, includes and libraries, memory allocation and release, linked lists, trees, the C standard library

• Network & system administration: Basics of computer networking: IP addresses, subnets, default routing, local

network structure, host to host connectivity to network services; Basics of system administration : operating system

installation with Linux, setting up security, access, users, storage, installing network services like mail, dns, web server,

• Object-oriented programming: Object programming principles in C++, classes, namespaces, constructors and

destructors, memory management in C++, inheritance, abstraction, overloading, templates, standard C++ library types

and tools

Rigor: The need to fulfill administrative and technical constraints. The need for a wide and deep testing process to

eliminate failure.

• System programming: Classic Unix system interactions: system calls, filesystem access and management, process

creation, execution, management; inter-process communications : pipes and signals; device management and ioctl,

terminal capabilities; network communication: TCP & UDP sockets, DNS resolution, endianness

Web: The client-server architecture involved in the web, role and actions of the web server, role and actions of the web

browser; The HTTP protocol; Web technologies involved : HTML, CSS, Javascript, images and videos; Backend

language and framework for dynamic websites: one among php, ruby, python, go, javascript, Rails, Symfony, Django, Node, ...; MVC model; users web services: web sessions, authentification, cookies, search, caddie, backoffice

configuration, ...; Basics of user experience, user interface, and design.

Details of each validated project in appendix 1.

1337 coding school | https://1337.ma | Contact@1337.ma LEET INITIATIVE, 2 rue Al Abtal - Hay Erraha - 20200 CASABLANCA

The 42 Advanced Part

The 42 Advanced offers a choice of path among various ICT specialisations: each student can select the topic(s) she/he wants to develop and improve. This part of the curriculum also contains several professional experiences (internships, part-time jobs, ...).

No projects completed yet

Professional experience: no professional experience yet

Details of the validated projects in appendix 2.

APPENDIX 1

Projects covered during the common core:

Name	Estimated workload	Result	Associated skills	Validation date
Exam Rank 02	ОН	Pass		February 27, 2023
Exam Rank 04	ОН	Pass		February 07, 2024
CPP Module 00	22H	Pass	Imperative programming, Rigor, Object-oriented programming	December 24, 2023
CPP Module 01	12H	Pass	Imperative programming, Rigor, Object-oriented programming	December 24, 2023
CPP Module 02	12H	Pass	Imperative programming, Rigor, Object-oriented programming	December 24, 2023
CPP Module 03	12H	Pass	Imperative programming, Rigor, Object-oriented programming	December 24, 2023
Libft	70H	Pass with bonus	Imperative programming, Algorithms & Al, Rigor	October 15, 2022
Born2beroot	40H	Pass with bonus	Network & system administration, Rigor	October 23, 2022
ft_printf	70H	Pass	Algorithms & Al, Rigor	October 20, 2022
get_next_line	70H	Pass with bonus	Unix, Algorithms & Al, Rigor	October 30, 2022
so_long	60H	Pass	Imperative programming, Graphics	March 05, 2023
pipex	50H	Pass with bonus	Unix, Imperative programming	November 27, 2022
push_swap	60H	Pass	Unix, Imperative programming, Algorithms & AI, Rigor	February 08, 2023
minishell	210H	Pass with bonus	Unix, Imperative programming, Rigor	June 08, 2023
NetPractice	50H	Failed	Network & system administration, Rigor	December 26, 2023
Philosophers	70H	Pass	Unix, Imperative programming, Rigor	December 12, 2023
cub3d	280H	Pass	Imperative programming, Graphics, Algorithms & Al, Rigor	January 10, 2024

CPP Module 04 12H Pass Imperative programming, Rigor, Object-oriented programming

Exam Rank 04 Pass OH Pass 2023

APPENDIX 2

Projects covered during the 42 advanced:

Name Estimated workload Result Associated skills Validation date

Internship and professional experiences

Company name Duration Validation Skills Validation date

-

APPENDIX 3

Description of each covered project:

Name	Description
Libft	This project is your very first project as a student at 42. You will need to recode a few functions of the C standard library as well as some other utility functions that you will use during your whole cursus.
ft_printf	This project is pretty straightforward, you have to recode printf. You will learn what is and how to implement variadic functions. Once you validate it, you will reuse this function in your future projects.
Born2beroot	This project aims to introduce you to the wonderful world of virtualization.
get_next_line	May it be a file, stdin, or even later a network connection, you will always need a way to read content line by line. It is time to start working on this function, which will be essential for your future projects.
pipex	This project aims to deepen your understanding of the two concepts that you already know: Redirections and Pipes. It is an introductory project for the bigger UNIX projects that will appear later on in the cursus.
push_swap	This project involves sorting data on a stack, with a limited set of instructions, and the smallest number of moves. To make this happen, you will have to manipulate various sorting algorithms and choose the most appropriate solution(s) for optimized data sorting.
Exam Rank 02	This project will evaluate your abilities and knowledge about programming.
so_long	This project is a small 2D game with minilibx. You'll learn about textures, sprites and tiles.
minishell	The objective of this project is for you to create a simple shell.
Exam Rank 03	
Philosophers	Eat, Sleep, Spaghetti, repeat. This project is about learning how threads work by precisely timing a group of philosophers on when to pick up forks and eat spaghetti without dying from hunger.
CPP Module 00	This first module of C++ is designed to help you understand the specifities of the language when compared to C. Time to dive into Object Oriented Programming!
CPP Module	This module is designed to help you understand the memory allocation, reference, pointers to members and

01 the usage of the switch in CPP.

CPP Module This module is designed to help you understand Ad-hoc polymorphism, overloads and orthodox canonical

02 classes in CPP.

CPP Module

03

This module is designed to help you understand Inheritance in CPP.

This project is inspired by the world-famous eponymous 90's game, which was the first FPS ever. It will enable

cub3d you to explore ray-casting. Your goal will be to make a dynamic view inside a maze, in which you'll have to find

your way.

CPP Module This module is designed to help you understand Subtype polymorphism, abstract classes and interfaces in

04 CPP

Exam Rank

This project will evaluate your abilities and knowledge about programming.

This project