



Association 42  
Muallimköy Mahallesi, Deniz Cd. No:143-5,  
41400 Gebze / Kocaeli  
TÜRKİYE

## ACADEMIC RESULTS FOR MEHMET SEVÜK

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I, the undersigned Meltem Yıldırım, Managing Director of 42 Kocaeli located at Muallimköy Mahallesi, Deniz Cd. No:143-5, 41400 Gebze / Kocaeli TÜRKİYE, hereby certify that:

### **Mehmet Sevük, born on April 20, 2000 in Ankara (Turkey)**

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

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

**Selected in: December 2021**

**Curriculum started on: January 31, 2022**

**Curriculum ended on: -**

Founded in 2013, 42 is a worldwide network of ICT schools. We are a non-traditional educator offering high-quality and scalable software engineering education to anyone who wants to learn.

It is our mission to prepare the next generation for the jobs of today and tomorrow. We do so using an innovative educational model, which relies on peer-to-peer learning, project-based and hands-on approach to programming. Our innovative model, allowing individual pace and path, has proven that our students become industry-ready software engineers within 2 to 5 years.

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

**The current level of the student is: 10.56.**

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 42 advanced part.**

See details below.

Made in Kocaeli, on September 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:

**Mehmet Sevük : Common core achieved at: 100%.**

Developed skills during the entire common core:

- **Algorithms & AI:** 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, authentication, cookies, search, caddie, backoffice configuration, ... ; Basics of user experience, user interface, and design.

Details of each validated project in appendix 1.

## 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.

## SPECIAL

A student can eventually benefit from special programs or projects valuable for their personal skill set, and thus included in their curriculum.

They are mentioned here:

Name	Equivalent workload
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## APPENDIX 1

Projects covered during the common core:

Name	Estimated workload	Result	Associated skills	Validation date
Libft	70H	Pass with bonus	Rigor, Algorithms & AI, Imperative programming	February 23, 2022
get_next_line	70H	Pass with bonus	Rigor, Unix, Algorithms & AI	March 27, 2022
ft_printf	70H	Pass	Rigor, Algorithms & AI	May 21, 2022
Born2beroot	40H	Pass with bonus	Rigor, Network & system administration	June 27, 2022
minitalk	50H	Pass with bonus	Rigor, Unix	August 20, 2022
push_swap	60H	Pass	Rigor, Unix, Algorithms & AI, Imperative programming	October 07, 2022
so_long	60H	Pass with bonus	Imperative programming, Graphics	January 05, 2023
Exam Rank 02	0H	Pass		January 17, 2023
Philosophers	70H	Pass	Rigor, Unix, Imperative programming	January 23, 2023
Exam Rank 03	0H	Pass		March 24, 2023
minishell	210H	Pass	Rigor, Unix, Imperative programming	March 31, 2023
Exam Rank 04	0H	Pass		April 14, 2023
NetPractice	50H	Pass	Rigor, Network & system administration	April 29, 2023
cub3d	280H	Pass	Rigor, Algorithms & AI, Imperative programming, Graphics	June 01, 2023
CPP Module 00	22H	Pass	Rigor, Imperative programming, Object-oriented programming	July 22, 2023
CPP Module 01	12H	Pass	Rigor, Imperative programming, Object-oriented programming	July 22, 2023
CPP Module 02	12H	Pass	Rigor, Imperative programming, Object-oriented programming	July 23, 2023
CPP Module 03	12H	Pass	Rigor, Imperative programming, Object-oriented programming	July 23, 2023
Inception	210H	Pass	Rigor, Network & system administration	September 16, 2023

CPP Module 04	12H	Pass	Rigor, Imperative programming, Object-oriented programming	November 10, 2023
CPP Module 05	25H	Pass	Rigor, Imperative programming, Object-oriented programming	November 14, 2023
CPP Module 06	25H	Pass	Rigor, Imperative programming, Object-oriented programming	November 17, 2023
CPP Module 07	25H	Pass	Rigor, Imperative programming, Object-oriented programming	November 17, 2023
CPP Module 08	25H	Pass	Rigor, Imperative programming, Object-oriented programming	November 18, 2023
CPP Module 09	40H	Pass	Rigor, Imperative programming, Object-oriented programming	November 20, 2023
webserv	175H	Failed	Rigor, Unix, Network & system administration, Object-oriented programming	January 09, 2024
ft_irc	175H	Pass	Rigor, Unix, Network & system administration, Object-oriented programming	January 24, 2024
Exam Rank 05	0H	Pass		April 19, 2024
Exam Rank 06	0H	Pass		May 10, 2024
ft_transcendence	245H	Pass with bonus	Rigor, Web, Group & interpersonal	August 04, 2024

## APPENDIX 2

Projects covered during the 42 advanced:

Name	Estimated workload	Result	Associated skills	Validation date
snow-crash	147H	in progress	Unix, Security, Adaptation & creativity	-
override	196H	in progress	Unix, Security, Adaptation & creativity	-
ft_ssl_md5	49H	in progress	Rigor, Algorithms & AI, Security	-

### Internship and professional experiences

Company name	Duration	Validation	Skills	Validation date
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## 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.

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.
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.
minitalk	The purpose of this project is to code a small data exchange program using UNIX signals. 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.
so_long	This project is a small 2D game with minilibx. You'll learn about textures, sprites and tiles.
Exam Rank 02	Exam Rank 02
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.
Exam Rank 03	Exam Rank 03
minishell	The objective of this project is for you to create a simple shell.
Exam Rank 04	EXAM RANK 04
NetPractice	NetPractice is a general practical exercise to let you discover networking.
cub3d	This project is inspired by the world-famous eponymous 90's game, which was the first FPS ever. It will enable 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 00	This first module of C++ is designed to help you understand the specificities of the language when compared to C. Time to dive into Object Oriented Programming!
CPP Module 01	This module is designed to help you understand the memory allocation, reference, pointers to members and the usage of the switch in CPP.
CPP Module 02	This module is designed to help you understand Ad-hoc polymorphism, overloads and orthodox canonical classes in CPP.
CPP Module 03	This module is designed to help you understand Inheritance in CPP.
Inception	This project aims to broaden your knowledge of system administration by using Docker. You will virtualize several Docker images, creating them in your new personal virtual machine.
CPP Module 04	This module is designed to help you understand Subtype polymorphism, abstract classes and interfaces in CPP.
CPP Module 05	This module is designed to help you understand Try/Catch and Exceptions in CPP.
CPP Module 06	This module is designed to help you understand the different casts in CPP.
CPP Module 07	This module is designed to help you understand Templates in CPP.
CPP Module 08	This module is designed to help you understand templated containers, iterators and algorithms in CPP.
CPP Module 09	This module is designed to help you understand the containers in CPP.
ft_irc	Create your own IRC server in C++, fully compatible with an official client.
Exam Rank 05	
Exam Rank 06	
ft_transcendence	Surprise