



University of Hargeisa
College of Computing and IT
Department of Computer Science
Assignment (15%)
Design and Analysis of Algorithms

Assignment Instructions:

You are tasked with a critical assignment that requires careful research, analysis, and detailed documentation. Below are the instructions and guidelines to ensure the quality and professionalism of your submission:

Instructions:

1. Research and Literature Review:

Gather a sufficient number of relevant reference materials and review them in detail.

2. Document Preparation:

Your written document must include the following sections:

- I. Introduction: Provide an overview of your chosen topic, setting the context for your review.
- II. Detailed Literature Review: Summarize and analyze the reference materials related to your topic.
- III. Critique: A Critical Review:

Highlight the strengths and weaknesses of the reviewed literature.

- IV. The Algorithm and Its Pseudocode: Explain the key algorithm related to your topic and provide its pseudocode.
- V. Complexity Analysis and Discussion: Analyze the algorithm's computational complexity and discuss its efficiency.
- VI. Conclusion: Summarize your findings and provide insights or recommendations based on your review.
- VII. References: Provide a complete list of all the references cited in your work, formatted according to IEEE style.

3. Writing Style and Format:

- Write the Introduction, Critique, Analysis, and Conclusion sections in your own words to demonstrate your understanding.
- Include a full citation of the referenced article at the top of each page below the heading.
- Be concise and avoid unnecessary or superfluous information.

4. Formatting Guidelines:

- I. Font: Times New Roman
- II. Font Size: 12
- III. Font Color: Black
- IV. Line Spacing: 1.5
- V. Alignment: Full justification
- VI. References: Use IEEE format

This assignment is critical and demands a high level of academic rigor. Ensure your work is well-structured, clear, and adheres to the provided guidelines.

All assignments must be submitted on or before **February 5th 2025** via my official email: suleiman.gargaare@uoh.edu.so Please ensure your submission adheres to the provided guidelines and is sent on time.

Best of luck, and I look forward to reviewing your submissions!

4D – Grouping with their Titles

1	Abdirahman Hassan Aden Esse	Group 1 Shell Sort
2	Abdirahman Mohamed Abdi	
3	Abdisamed Aden Abdi Jama	
4	Abdiwahab Yousuf Mursal Ahmed	
5	Amiin Axmed Siciid Caqli	
6	Amiin Fu-Aad Ibraahim	
7	Amran Cabdi Muuse Cabdilaahi	
1	Axmed Maxamuud Muuse Jibriil	Group 2 Heap Sort
2	Bilan Musa Hussein	
3	Cabdale Cali Cismaan	
4	Cabdilaahi Khadar Yoonis Axmed	
5	Cabdiraxmaan Cali Maxamed Kahin	
6	Cabdiraxmaan Siciid Cali Cabdilaahi	
7	Cabdirisaaq Cali Xasan Cawaale	
1	Cabdishakuur Maxamed Jaamac	Group 3 Cycle Sort
2	Cadnaan Cabdiraxamaan Cawil	
3	Canab Maxamed Cilmi Ibraahim	
4	Cumar Maxamuud Axmed Sh.Nuur	
5	Guleed Cabdiqaadir Aadan Maxamed	
6	Hibaaq Siciid Ismaaciil Cubili	
7	Hibo Saleebaan Cumar Axmed	
1	Hodan Cali Aw.Yuusuf	Group 5
2	Hoodo Ismaaciil Ibraahim Caabi	
3	Hoodo Xasan Cabdi Cismaan	

4	Ishwaaq Cabdisalaan Xasan Aadan	Tim Sort
5	Ismaaciil Saleebaan Cali Warsame	
6	Khadar Faysal Xassan	
7	Mahad Ali Abdi Ahmed	
1	Maxamuud Axmed Cali Jire	<div>Group 6</div> <div>Bogo Sort</div>
2	Mohamed-amin Osman Ahmed	
3	Mohamoud Abdi Hussein Adib	
4	Mubaarig Cabdilaahi Oomar Aadan	
5	Mumtaas Cali Xasan	
6	Mustafe Ali Yusuf	
7	Nagiib Cali Yuusuf Ibraahim	
1	Nimcan Abdi Muhumed	<div>Group 7</div> <div>Comb Sort</div>
2	Raxma Maxamed Siciid Cumar	
3	Rooda Cismaan Xirsi	
4	Sakariye Maxamed Saleebaan Amiin	
5	Salma Cabdirisaaq Saleebaan Axmed	
6	Sharmarke Fuad Abdi	
7	Mohamed Khadar Abdi Jama	
1	Sidiiq Sacad Ismaaciil Siciid	<div>Group 8</div> <div>Intro Sort</div>
2	Suhayb Cabdiraxamaan Cumar Maxamed	
3	Suldan Sahardid Ahmed	
4	Sundus Cabdirisaaq Cabdilaahi Cilmi	
5	Xafsa Cabdilaahi Xasan Faarax	
6	Xasan Maxamuud Ismaaciil Muxumed	

PRESENTATION SCHEDULE OF THE ASSIGNMENT

The schedule of the presentation will be:

Group Name	Time	Date
Group 1	16:30 – 16:45	Thursday 6 th Feb, 2025
Group 2	16:45 – 17:00	Thursday 6 th Feb, 2025
Group 3	17:15 – 17:20	Thursday 6 th Feb, 2025
Group 4	17:20 – 17:35	Thursday 6 th Feb, 2025
Group 5	17:35 – 18:00	Thursday 6 th Feb, 2025
Break		
Group 6	18:30 – 18:45	Thursday 6 th Feb, 2025
Group 7	18:45 – 19:00	Thursday 6 th Feb, 2025

Note: The lecturer will select the presenters from each group on the day of the presentation. The remaining group members will be responsible for answering questions related to their specific topic.