



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!

4E - Grouping with their Titles

1	Abdifatah Hassan Jama	Group 1 Shell Sort
2	Abdirahman Hassan Jama Ali	
3	Aisha Abdulla Ali	
4	Amin Sead Ismail	
5	Asia Omar Ismail Jama	
6	Asma Ismail Osman	
7	Awo Maxamed Askar	
1	Badriya Maxamed Xuseen Cilmi	Group 2 Heap Sort
2	Bahja Maxamed Sh.Maxamed	
3	Balqiisa Cumar Axmed Maygaag	
4	Cabdikhaaliq Maxamed Jaamac	
5	Cabdimajid Cabdirisaaq Maxamed	
6	Cabdinaasir Khadar Faarax Cali	
7	Cabdirahman Cabdilaahi Xusseen	
1	Cabdiraxamaan Maxamed Muxumed	Group 3 Cycle Sort
2	Cabdirisaaq Axmed Cabdiraxamaan	
3	Cabdirisaaq Yuusuf Mire Cabdi	
4	Cabdisamad Cali Maxamuud Cabdi	
5	Cawil Xasan Yuusuf Cabdi	
6	Cumar Cismaan Cali Ibraahim	
7	Faysal Cabdiqaadir Cumar Cabdi	
1	Hana Axmed Biixi Gudal	Group 5
2	Hana Muuse Axmed Ibraahim	
3	Hodan Maxamed Liibaan Ismaaciil	

4	Hoodo Abdi Jama Samater	Tim Sort
5	Hoodo Muxumed Cilmi Ibraahim	
6	Ibraahim Maxamed Axmed	
7	Ikraan Maxamed Cismaan Ibraahim	
1	Isra Cabdikariim Axmed Gudaal	Group 6 Bogo Sort
2	Khalid Mohamed Awil	
3	Khalid Mubarik Mohamed	
4	Liibaan Cabdiraxamaan Xasan Ismaaciil	
5	Maxamed Abshir Cali Nuur	
6	Maxamed Axmed Maxamuud Cumar	
7	Maxamed Cabdilaahi Muuse Ibraahim	
1	Maxamed Maxamuud Ibraahim	Group 7 Comb Sort
2	Maxamed Maxamuud Maxamed	
3	Mohamed Ahmed Hassan Hersi	
4	Mubarig Suleiman Elmi	
5	Muuse Ismaaciil Muuse Ildab	
6	Nagib Osman Derie Egeh	
1	Salaad Xuseen Kaariya Jaamac	Group 8 Intro Sort
2	Salman Abdi Hassan	
3	Siciid Cumar Maxamuud Cige	
4	Suhayb Maxamed Cali Nuur	
5	Xaawa Maxamuud Liibaan Maxamed	
6	Mohamed Ibrahim Abdillahi Ali	

PRESENTATION SCHEDULE OF THE ASSIGNMENT

The schedule of the presentation will be:

Group Name	Time	Date
Group 1	16:30 – 16:45	Sunday 9 th Feb, 2025
Group 2	16:45 – 17:00	Sunday 9 th Feb, 2025
Group 3	17:15 – 17:20	Sunday 9 th Feb, 2025
Group 4	17:20 – 17:35	Sunday 9 th Feb, 2025
Group 5	17:35 – 18:00	Sunday 9 th Feb, 2025
Break		
Group 6	18:30 – 18:45	Sunday 9 th Feb, 2025
Group 7	18:45 – 19:00	Sunday 9 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.