University of Hargeisa

College of Computing and IT

Department of Computer Science

Assignment (15%)

Design and Analysis of Algorithms

Instructions: -

Gather sufficient number of reference literatures and review them in detail: -

1. Prepare your written documents by including:
    i.   Introduction about your Topic
    ii.   Detailed Literature Review
    iii.   Critique: A Critical Review
            ✓ Strengths
            ✓ Weakness
    iv.   The Algorithm and Its Pseudocode
    v.   Complexity Analysis and Discussion
    vi.   Conclusion
    vii.   References

Try to describe the Introduction, Critiques, Analysis and Conclusion in your own words.

Format:-

i.   **Font**: TimesNewRoman, **Font Size**: 12, **Font Color**: Black, **Line Spacing**: 1.5, **Justify**: Full Justification, Reference: IEEE.
ii.   A complete citation of the article goes at the top of the page, below your heading.
iii.   Be concise and eliminate superfluous information.

4C – Grouping and their respected titles:

1	Abdalleh Abdirisak Hassan Mohamoud	**Group 1**
2	Abdifatah Abdinasir Ahmed Ibrahim	
3	Abdifatah Faarah Omer Mogeh	
4	Abdihamid Abdirisak Mohamoud Bileh	Shell Sort
5	Abdikhadar Ibrahim Dualeh Ayah	
6	Abdirahim Abdiqadir Hussein Sead	

1	Abdirahman Mohamed Yousuf Mohamoud	**Group 2**
2	Abdirahman Mustafe Muhumed Ali	
3	Bilan Yousuf Abdi Howsi	
4	Bushra Abdi Adam Ahmed	Heap Sort
5	Guleid Hussein Yasin Ahmed	
6	Hafsa Farah Abdirahman Gulied	

1	Hamda Kaise Husain Hassan	**Group 3**
2	Hamse Esse Mohamoud Abdillahi	
3	Hamse Hassan Hussein Omer	
4	Hana Awil Aw.Hashi Elmi	Bucket Sort
5	Hassan Mohamed Ali Elmi	
6	Hibak Saed Ismail Mahamud	

1	Hodan Mohamed Ibrahim Jama	**Group 4**
2	Hodo Ibrahim Ismail Dubad	
3	Huda Mohamed Ahmed Hussein	
4	Ilhan Abdoulkader Hassan	Binary Search
5	Isra Abib Abdi Jama	
6	Juweria Yahya Ibrahim Dirie	

1	Khadar Faisal Abdillahi Egeh	**Group 5**
2	Marwa Ali Osman Halais	
3	Mohamed Hussein Ibrahim -	
4	Mohamed Ibrahim Abdillahi Ali	Linear Search
5	Mohamed Khadar Abdi Jama	
6	Mohamed Osman Ahmed Yousuf	

1	Mubarik Mukhtar Abdillahi Ibrahim	**Group 6**
2	Muna Ibrahim Abdillahi Eman	
3	Mustafe Ali Ibrahim Ainashe	
4	Muwahib Abdisalan Yousuf Faarah	Fibonacci Search
5	Nabiha Heis Abdulahi Mohamed	
6	Naima Osman Abokor Warsame	

1	Nimao Hussein Bihi	**Group 7**
2	Sa'ad Mohamed Warsame Farah	
3	Salma Mustafe Ali Omer	
4	Salma Abdi Ahmed Jibril	Interpolation Search
5	Seinab Ali Omer Ismail	

1	Sidik Faisal Mohamed Magan	**Group 8**
2	Suleiman Mohamed Suleiman Amin	
3	Abdi-Asis Mohamoud Abdille Kainan	
4	Abdirahman Mohamed Ahmed	Closest pair and convex hull
5	Mohamed Abdillahi Aden Guleid	

SCHEDULE, PLAN AND THE CONTENTS OF THE ASSIGNMENT

The schedule of the presentation will be:

Group Name	Time	Date
Group 1	16:20 – 16:35	Saturday 30th Dec, 2023
Group 2	16:35 – 16:50	Saturday 30th Dec, 2023
Group 3	16:50 – 17:05	Saturday 30th Dec, 2023
Group 4	17:05 – 17:20	Saturday 30th Dec, 2023
Group 5	17:20 – 17:35	Saturday 30th Dec, 2023
Break		
Group 6	18:15 – 18:30	Saturday 30th Dec, 2023
Group 7	18:30 – 18:45	Saturday 30th Dec, 2023
Group 8	18:45 – 19:00	Saturday 30th Dec, 2023

From the documentation of the assignment, you all need to submit on or before **25th December**, **2023** via my official email: suleiman.gargaare@uoh.edu.so

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NB: The lecturer will choose the presenters from the group on the presentation day. The remaining students from the group will answer the questions related to your specific topic.

Suleiman Gargaare

Certified PMP

MSc in CS, MSc in PM & BSc in IT