

**Knit Arena**

Software Research and Services Private Limited,
Hubballi - 31.

Registration Number: 113756

www.knitarena.com

Knit Challenge 2019

You are given a file named 'input.txt' which has details of 100 e-commerce items. Each item data is separated by an empty newline. Each item data is represented as (name, value) which describes the item specifications. 'item id' is common to all. There is also domain but not all are assigned with domains.

You need to present each item as a vertex. You have 100 vertices, per say, 100 disconnected components to begin with. You don't have edges - just the vertices. Edges will not be supplied either.

User will supply a keyword as an input. The input is always in lower case. If the keyword is found in any of the vertices, you perform traversal and print it to the user. You have an option to dynamically create edges based on the keyword or create a graph already based on your pre-known understanding.

The traversal you print has to be a meaningful one - as meaningful as it can get. If you have any further queries, no, don't ask. You already have sufficient details and the problem is open ended. Engineer the most appropriate solution. We are looking for 'wow, damn!' solutions. If you however need any further clarifications, email us!

Find all the competition related files [**HERE.**](#)

Judges:

A team of 15 alumni, called 'crew' who are associated with Knit Arena will be judging your submission. Out of 15, 5 have MS Degree and settled in foreign countries and others have 3+ years of industry experience.

Team Details:

- Team of two
- The team members need not be from the same division
- Open to KLE TU Second year SoCSE students only

Submission:

- You need to submit the following:
 - Your .c source file. The code has to be free from errors and warnings. Submit your solution as a single .c file.
 - readme.txt. The format of this file is available in github. Use the same template.
 - Design document. You need to give a brief of your design here. Explain how you achieved your task.
- Send all the three files, one attached individually and one in a single zipped directory and submit to email id: eff.knit@gmail.com
- Email Subject line: **Knit Challenge 2019 Submission**
- Deadline: **9 Oct 2019 EOD.**
- In the email body: mention team member names.

Evaluation Criteria:

Si. No	Criteria	Marks
1	Design of the solution	50
2	Implementation and correctness	50
3	Traversal results and meaning establishment	50
4	Documents submitted	50
5	Adhering to submission guidelines, Timely submission, Email etiquettes, Report structure, grammar etc.	50
6	Wow factor	50
	Total	300

Perks:

- Winning **ONE Team** will be awarded cash prize of 1000/- and a declaration letter from Knit Arena
- Winning team will gain direct entry to Knit School Code Camp 2020 (which is scheduled to happen in June 2020, second edition of the camp) – This offer is optional and can be rejected by the team. They can also take optional take home summer internships.
 - Knit School is a code and research camp, a stay-in camp where participants stay with Knit for 5-7 days
 - The School includes accomodation, basic amenities etc along with minimal stipend and certificate
 - The School Location will be Hubballi
 - The School covers several start-of-art courses and Data Science research projects
- Next two to five prizes, depending on the submissions will be awarded by SOCSE association.

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