Detect the Email Addresses

You will be provided with a block of text, spanning not more than hundred lines. Your task is to find the unique e-mail addresses present in the text. You could use Regular Expressions to simplify your task. And remember that the "@" sign can be used for a variety of purposes! Requirements are simplified versus real world. There can be a number of strings separated by dots before and after the "@" symbol. Strings will be made up of characters in the ranges a-z, A-Z, 0-9, _ (underscore).

Input Format

The first line contains an integer N (N<=100), which is the number of lines present in the text fragment which follows.
From the second line, begins the text fragment (of N lines) in which you need to search for e-mail addresses.

Output Format

All the unique e-mail addresses detected by you, in one line, in lexicographical order, with a semi-colon as the delimiter.

Sample Input

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19
HackerRank is more than just a company
    We are a tight group of hackers, bootstrappers, entrepreneurial thinkers and innovators. We are building
an engaged community of problem solvers. Imagine the intelligence and value that a room would hold if it
contained hackers/problem solvers from around the world? We're building this online.
Hypothesis: Every hacker loves a particular type of challenge presented in a certain set of difficulty. If we
build a large collection of real world challenges in different domains with an engaging interface, it is
going to be incredible! Join us to create history.
Available Positions
Product Hacker product@hackerrank.com
Challenge Curator
Product Evangelist
Product Designer
Content Creator
ACM World Finals Hacker
Backend C++ Hacker
Mail us at hackers@hackerrank.com to chat more. Or you can write to us at interviewstreet@hackerrank.com!
HACKERRANK PERKS
Working for a startup is hard work, but there are plenty of benefits of working for a small, fun, growing
team.
[Image] Perk: Get tools for the jobAll the Right ToolsWe know that everyone's perfect workspace is unique to
them. We will get you set up with whatever equipment you need to start hacking - a new 15" Macbook Pro or
iMac, or a computer of your choice plus a display if you need it. Additionally, if you require any software
or other tools, we've got it covered.[Image] Perk: Flexible HoursFlexible HoursBecause we work so hard, we
encourage our employees to keep flexible hours and don't require them to track their time. A morning scrum
and open communication ensures that the job gets done on time, and we rely on the honor system so that you
can work on your own pace.[Image] Perk: HealthcareWellness SupportTo work hard, you have to be healthy. We
will cover your health, dental, and visual insurance with no wait period. That means instant benefits from
the day you're hired.[Image] Perk: Choice of LocationLocation, Location, LocationWe are the first Indian
company to be backed by Y-Combinator, and as a result we have a thriving office in Bangalore and a growing
office in Mountain View, CA. Depending on your residency or visa status, we will get you situated in one of
our two offices, both of which are located in the heart of their country's tech industry.[Image] Perk: Choice
of LocationCreative SupportIf you have a cool side project that you want to launch, we will pay for
EC2/heroku servers to get it off the ground. Side projects fuel creativity and learning, which are crucial to
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the HackerRank culture.
CULTURE
The culture of a startup is reflective of the founders' DNA. Larry Page & Sergey Brin were PhD's from Stanford and that's why Google is filled with high scoring graders from top schools and is very hard to get in if you're not a CS major. Similarly, the hacker culture at Facebook is inspired by Zuckerberg, a hacker, the design culture by Steve Jobs and so on.
The adjective to describe the environment/founders here is relentless hardworkers. It might be a general trait of a startup but I'm pretty sure it's a notch higher here and defines the culture. This is what has taken us this far. It's not working in weekends or allnighters that count, but the effort that goes into building something intellectually engaging for hackers and making it fun is high.
You'll have to embrace randomness and chaos. There's some level of discipline (eg: daily scrums) but only so much. We push boundaries everyday, stretch our limits but no one complains because there's a feeling of doing something great at the end of the day, every single day.

Sample Output

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hackers@hackerrank.com;interviewstreet@hackerrank.com;product@hackerrank.com
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