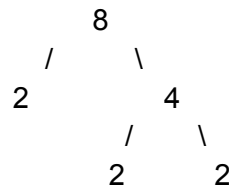# VIMEO

SRE Intern

Name: Adarsh Yadav
Course: M.Sc Computer Science
Batch: 2020-22

Round 1 (Hackerearth): OA [75 minutes] - 27 JAN
- 2 coding Question (easy)
  - Find the max height of the tree. Each branch of the tree contains the factors of that number

```
                8
              /   \
            2       4
                  /   \
                2       2
```

    Return max height, i.e. 2.

  - A[0], A[1], . . . A[n].
    If A[i] can be reduced to A[i]-0 to A[i]-A[i].
    Then find if the given series can be converted into a strictly increasing order.
    E.g.
        4, 5, 8, 7, 8, 9
    A[2] can be reduced to 8-2=6, and series become strictly increasing order.
    Therefore return YES.

Round 2: (Zoom) Technical interview [45 minutes] - 2 FEB
- What happens when we hit google.com
- What are container
- How containers are different from VM
- OSI layers
- How a packet is transfer from my machine to your machine
- Network classes
- Gateway
- File system
- System call
- Race condition
- Kernel vs OS
- Concurrency vs parallelism
- ARP, DNS
- What happens when we buy a domain (domain company will update all DNS server)

- BGP
- HTTP, HTTPS
- Sliding Window protocol
- SSL, how does SSL work on websites?
- Real life example of heap, stack

Whole interview was based on OS and networking concepts. No coding question was asked. (I was not able to answer some questions.)

Round 3: (Zoom) Hiring Manager [35 minutes] 11 - FEB
- Kubernetes
    - Service
    - Load balancer vs Nodeport
- How load balancer works
- Abstract class vs Interface
- Git add, rebase
- Elasticsearch
    - What is elasticsearch
    - Sharding
- Explain your project
- Why are you interested in this role?

Round 4: (Zoom) Coding [45 minutes] 16 - FEB
- Some questions on projects
- WAF to convert string to number
    - Handle some cases like:
        - "1.1" => "not int"
        - "1a" => "NaN"
- WAF to count the number of digits b/w a range
    - E.g. 9 to 12
      9, 10, 11, 12
      Total no. of digits: 7

Round 5: (Zoom) HR [30 minutes] 21 - FEB
- It was kind of discussion
    - Why are you interested in this role?
    - Can you relocate to bangalore
    - Joining date

TIPS:
- My M.Sc minor project helps me in the interview.
- If you are applying for the SRE role, you need some basic knowledge of Docker, Kubernetes (plus points)