VERSION 2

DEMUX
ACADEMY

Hi!

We are glad you trusted us with this important phase of your career. In this series, we are trying to list down the interview process and most frequently asked questions of most sought after companies. This data is compiled specifically for people who are sitting for placements in the next **2-3 months.**

I ABOUT US

Demux is the country's **first incubator** for college students and we have students only from top **IITs/NITs/BITs.** We don't hesitate in boasting **98% conversion** from our previous batches and are now working in companies like **Google, Amazon, Microsoft, Flipkart etc.**

MEET OUR INSTRUCTORS

Manvi Garg
IIT Kharagpur
Google

Somil Gupta
NIT Allahabad
Google

Sunny Dhamnani
IIT Kharagpur
Adobe

Sanket Kedia
IIT Kharagpur
ORACLE

Sudhanshu Bahety
IIT Kharagpur
salesforce

Varun Garg
NIT Allahabad
Flipkart

UBER

APPLICATION

ONLINE
TEST

TECH
INTERVIEW 1

TECH
INTERVIEW 2

MULTIPLE
ROUNDS POSSIBLE

?

REJECTION

OFFER

ONLINE TEST QUESTIONS

INTERVIEW CODING QUESTIONS

DIRECTi

Participate in various competitions held on CodeChef regularly and clear CCDSAP exams to get some advantage.

APPLICATION

ONLINE
CODING

ALGORITHM
ROUNDS

2-3

TECH
INTERVIEW

?

REJECTION

OFFER

ONLINE TEST QUESTIONS

01. Maximum path sum in complete binary tree
02. Largest Square in a Binary Matrix with at most K 1s for multiple Queries

INTERVIEW PROCESS

01. Online Coding

02. Algorithm Round - Over Skype

03. Algorithm Round - Over Skype

04. Technical Interview

EXPEDIA

APPLICATION

ONLINE CODING

TECH INTERVIEW

MULTIPLE ROUNDS

HR INTERVIEW

?

REJECTION
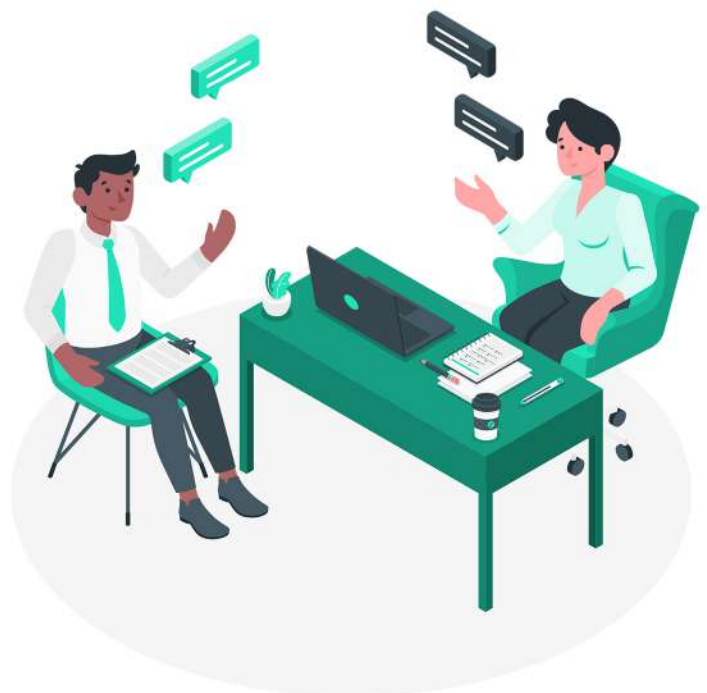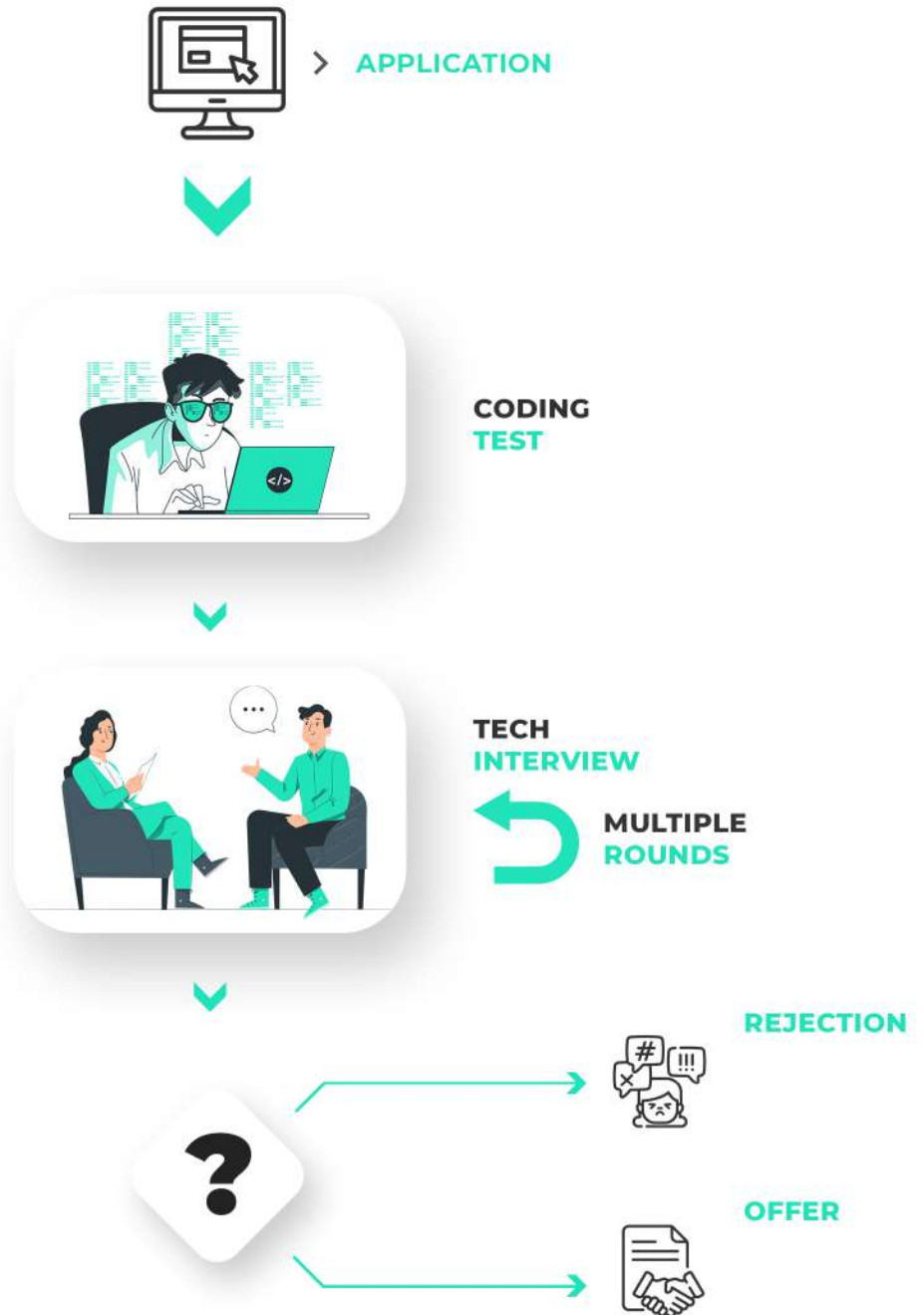
OFFER
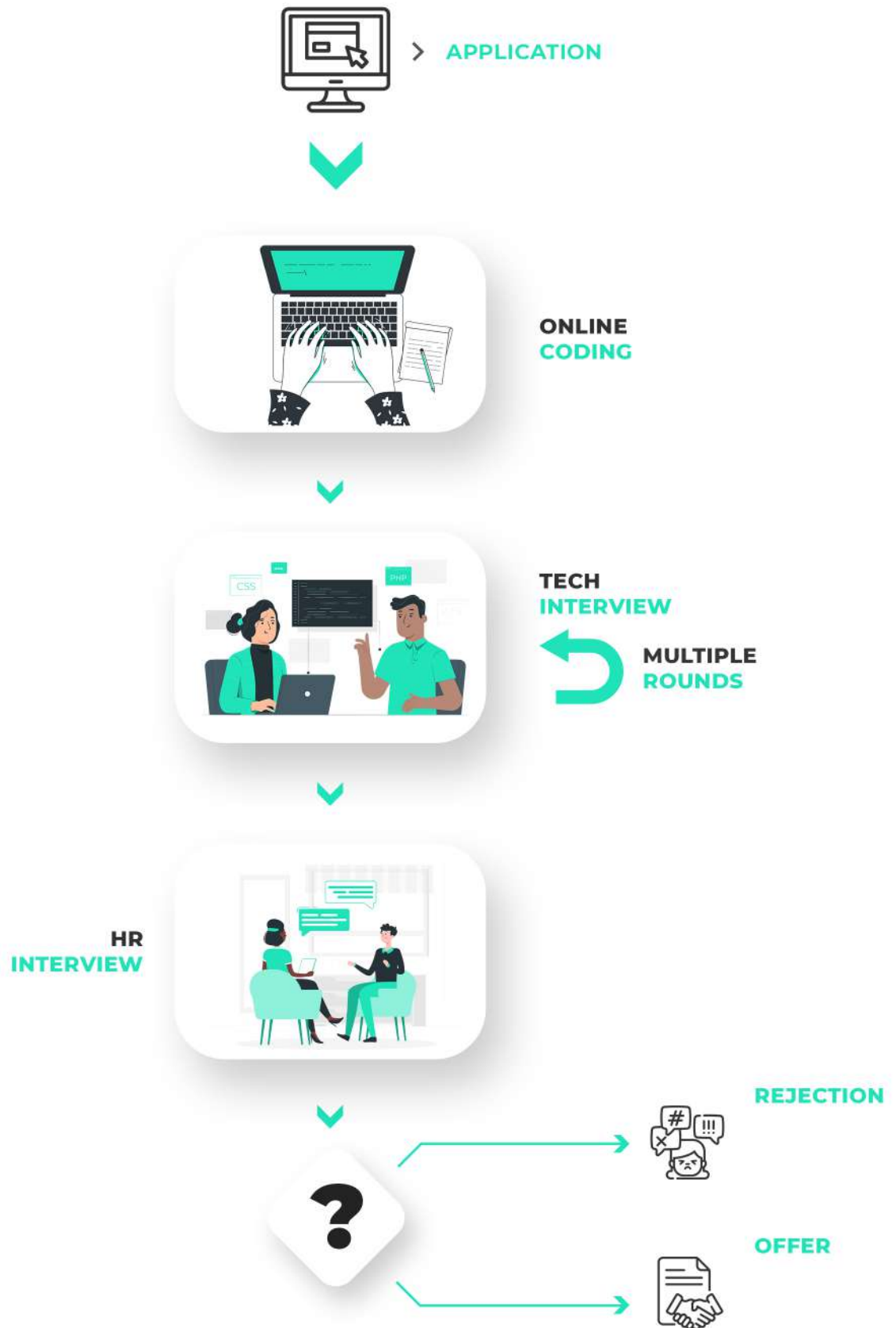
ONLINE TEST QUESTIONS

01. Create k group using n members
02. Problem of minimum divisor
03. Subsequence with max sum under K
04. Number of ways to remove chocolate
05. Given preorder traversal of a Binary Tree in the form of an array, check if it is a BST or not.
06. Delete Nodes with odd value in a linked list
07. Find the Smallest Divisor Given a Threshold
08. Find Median from Data Stream
09. Sudoku Solver
10. Sort Characters By Frequency
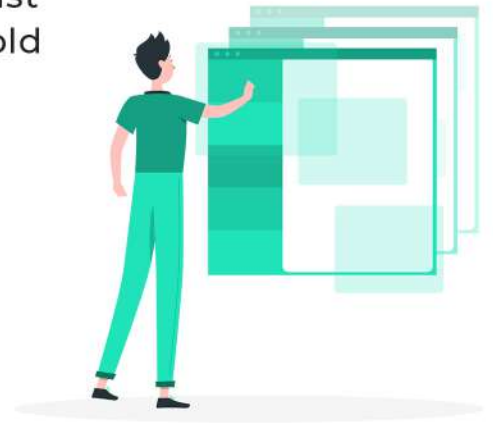
INTERVIEW CODING QUESTIONS

01. Merge the overlapping intervals.
02. Find max sum of subarray
03. Pascal Triangle using Recursion

VISA

APPLICATION

CODING
TEST

TECH
INTERVIEW

MULTIPLE
ROUNDS

?

REJECTION

OFFER

ONLINE TEST QUESTIONS

INTERVIEW CODING QUESTIONS

JP MORGAN

> **APPLICATION**

ONLINE
TEST

TECH
INTERVIEW

MULTIPLE
ROUNDS

HR
INTERVIEW

?

REJECTION

OFFER

ONLINE TEST QUESTIONS

J.P.

INTERVIEW PROCESS

01. Online Test - Aptitude and Technical MCQs, Coding questions

02. Technical Interview(s) - Discussion from resume, basic CS questions, coding.

03. Interview with HR

MORGAN STANLEY

Morgan Stanley

> **APPLICATION**

ONLINE TEST

TECH INTERVIEW

MULTIPLE ROUNDS

GROUP ACTIVITY

> **HR INTERVIEW**

?

REJECTION

OFFER

ONLINE TEST QUESTIONS

01. Selection of team based on conflicts
02. Sort an array of 0s, 1s and 2s
03. 0 - 1 Knapsack Problem
04. Minimum element in a sorted and rotated array
05. Maximum sum increasing subsequence
06. Level order traversal Line by Line
07. Implement Atoi
08. Largest subarray of 0's and 1's
09. Remove duplicate elements from sorted Array
10. Clone a linked list with next and random pointer

INTERVIEW CODING QUESTIONS

01. Write a function to find the mirror image of binary tree

02. WAP to find the character which occurred maximum times in the character array

03. Given a 2d matrix find an element in a matrix which is 0 and make the entire row and column to 0

04. Find the minimum element in the rotated array of integers

05. Find highest length substring such that there are equal number of 0's and 1'sin array of 1's and 0's only

SAMSUNG

> APPLICATION

CODING
TEST

TECH
INTERVIEW

MULTIPLE
ROUNDS

HR
INTERVIEW

?

REJECTION

OFFER

ONLINE TEST QUESTIONS

01. Ropes
02. Find the minimum number of CPU required
03. Non-decreasing array after 1 or less swap
04. Longest Increasing Subsequence
05. Next larger element
06. Permutations of a given string
07. Finding middle element in a linked list
08. Root to leaf path sum
09. Detect Loop in linked list
10. Left View of Binary Tree

INTERVIEW CODING QUESTIONS

01. Fair distribution of Oil wells
02. Count number of bits to be flipped to convert A to B
03. Swap two nibbles in a byte
04. Total number of possible Binary Search Trees with n keys
05. Minimum Initial Points to Reach Destination
06. Find a triplet that sum to a given value
07. Largest Sum Contiguous Subarray
08. Next Greater Element

ATLASSIAN

> **APPLICATION**

ONLINE CODING

TECH INTERVIEW

MULTIPLE ROUNDS

HR INTERVIEW

?

REJECTION

OFFER

ONLINE TEST QUESTIONS

01. Find Leaves of Binary Tree
02. Time Based Key-Value Store
03. Lemonade Change
04. Maximum Average Subtree
05. Greatest Common Divisor of Strings
06. Shortest Distance to a Character
07. Boundary of Binary Tree
08. Letter Combinations of a Phone Number
09. Design Hit Counter
10. Peeking Iterator

INTERVIEW PROCESS

01. Online Coding Test

02. Technical Interview(s) - Coding and discussion

03. HR or Managerial Interview - Discussion from Resume