**Exam held on 4 parts:**

1. Multiple choice 20 questions about laravel. (10 minutes)
2. Programming test integer array sort with constructor method. (35minutes)
3. Programming test matrix rotate anti clockwise (Image rotation). (35minutes)

Example:

**Input:**

size = 3; and

img = 567

789

345

**Output:**

795

684

573

1. Multiple choice 15 question about SQL Database. (10 minutes)

**Answare:**

<?php

class Solution {

// This function rotates the elements of a 2D array to the right by 'k' steps

public function rotate(&$matrix, $k) {

$rows = count($matrix); // Get the number of rows in the matrix

$cols = count($matrix[0]); // Get the number of columns in the matrix

$k %= $cols; // Ensure k is within the bounds of the matrix's columns

// Rotate each row individually

foreach ($matrix as &$row) {

// Reverse the entire row

$this->reverseArray($row, 0, $cols - 1);

// Reverse the first k elements to restore their original order

$this->reverseArray($row, 0, $k - 1);

// Reverse the remaining elements to restore their original order

$this->reverseArray($row, $k, $cols - 1);

}

}

// Helper function to reverse elements in an array

private function reverseArray(&$arr, $start, $end) {

while ($start < $end) {

// Swap elements at $start and $end

$temp = $arr[$start];

$arr[$start] = $arr[$end];

$arr[$end] = $temp;

// Move indices towards the center

$start++;

$end--;

}

}

}