

# Yahoo Interview:

## Coding Round:

1. Implement Dictionary.
2. Divide a array in two part having equal sum else print NO.
3. Find the Maximum length palindrome in a given string.
4. Sort a big file if file size is greater than the RAM size.

## First Interview:

1. what is cache and why it is used. Write code to implement LRU technique in OS in most optimized way.
2. Write code to print the largest BST in a binary tree. (largest BST means the bst with largest number of node ).
3. What is backtracking and write code to validate and to solve a given sudoku.

## Second interview:

1. Tell me about yourself and other some HR stuff.
2. Given a matrix, return a row that doesn't have maximum and minimum element in  $O(1)$ .
3. Some OS discussion on
  - a. What are threads and difference from process.
  - b. Different way to implement IPC . Which to use when and why?
  - c. How semaphore works?
4. After he asked a question that if we write  
`char *a = (char *)malloc(4*2);`  
and try to access the `a[3]`. It gives Segmentation fault always .why?  
(yet it won't give seg. Fault every time but he thing that it will give always).
5. How operating system allocate memory to a program when we starts a new program (How much space OS provide to a new program. On which factor it depends)