Mosheure Rahman
ID: 181056042

```
int a[9] = {10, 20, 50, -10, 70, 5, 15, 0, -50};
main(){
    quicksort(0, 8);
}
void exchange(int i, int j){
    int x = a[i];
    a[i] = a[j];
    a[j] = x;
}
int partition(int y, int z){
    int i=y, j=z+1;
    while (i<j){
    i++; while (a[i] < a[y]) i++;
    j--; while (a[j] > a[y]) j--;
    if (i>j) exchange (i,j);
};
exchange (y,j);
return j;
}
```

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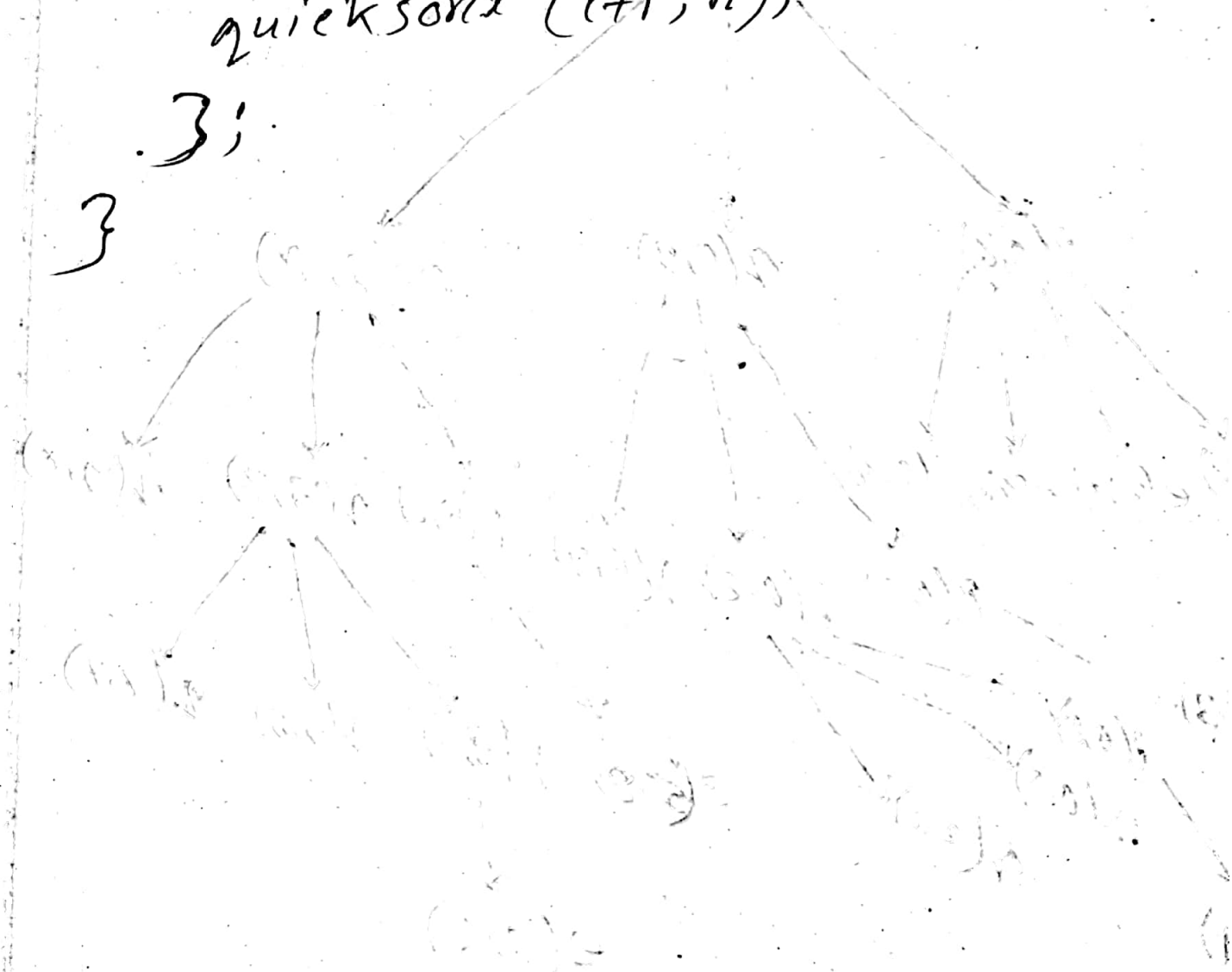
```
void quicksort(int m, int n){
  if(n>m){
    int i= partition(m,n);
    quicksort(m, i-1);
    quicksort(i+1, n);
  };
}
```



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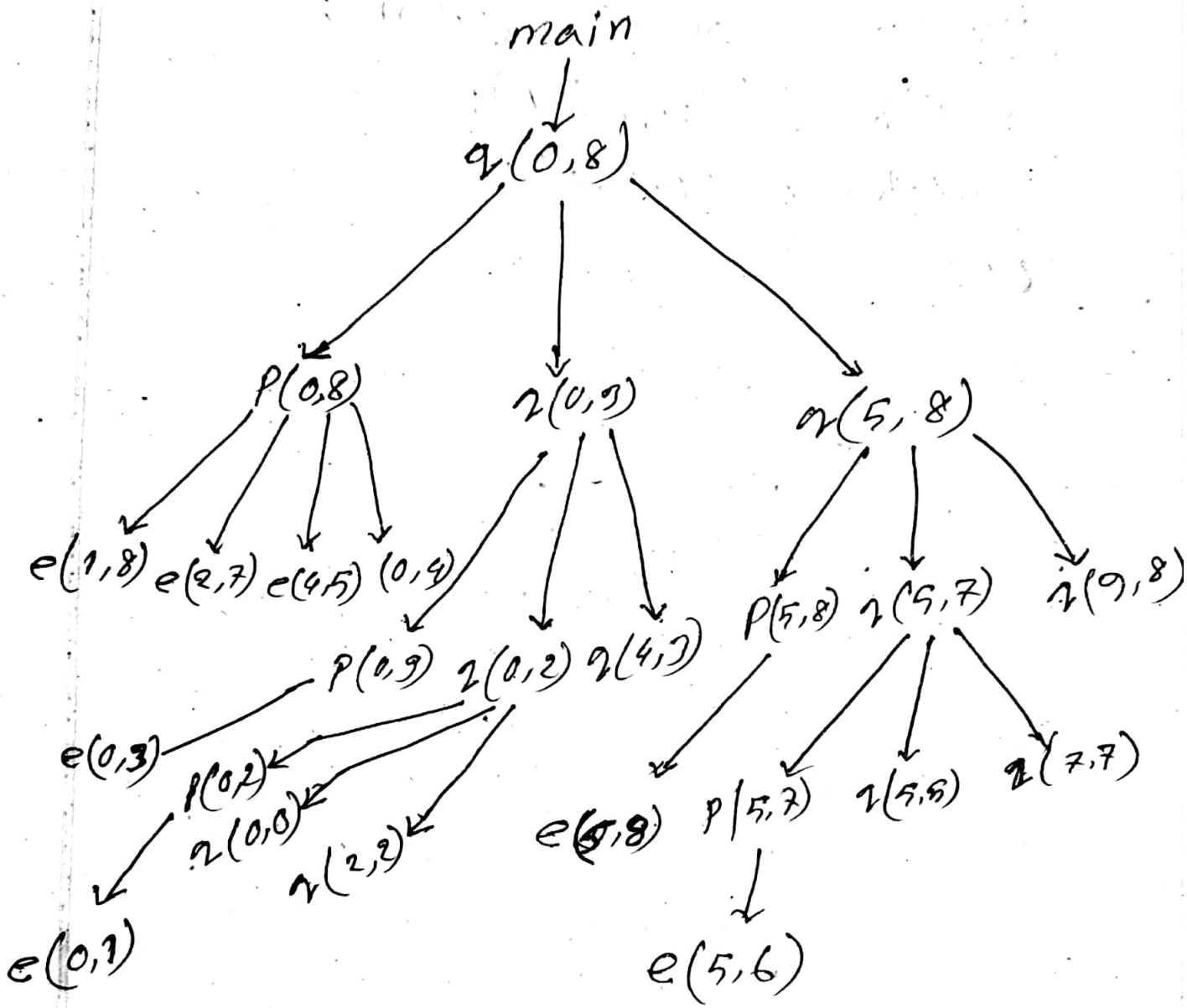
Activation trees:



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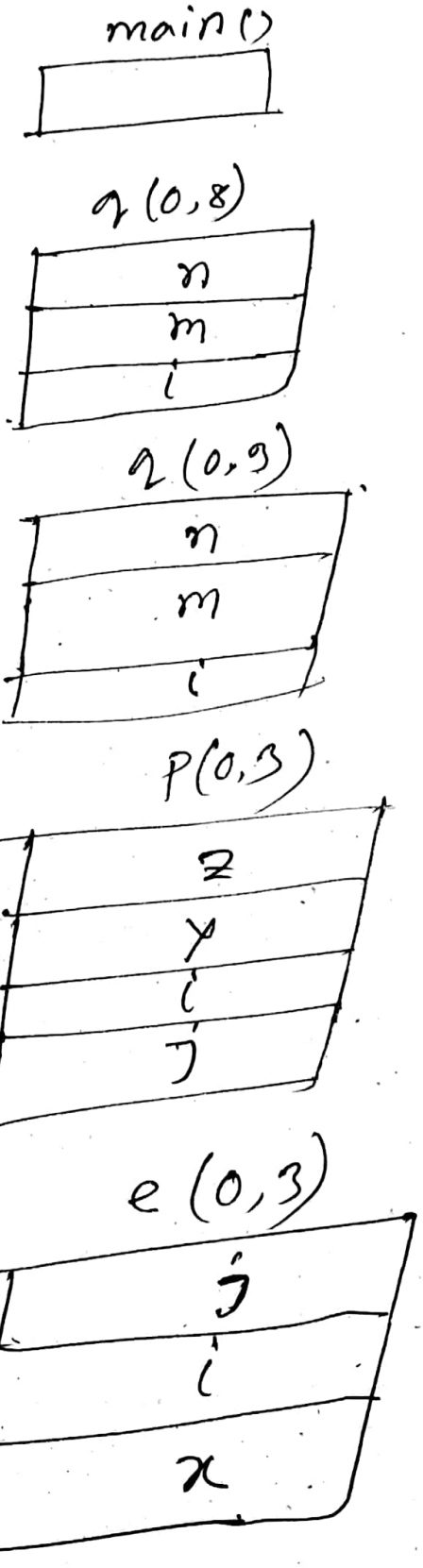
Activation Record



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