

# Banker's Algorithm

As you have studied in the lecture, you need to implement the request algorithm to allow a process to ask for a new resource to be allocated. Then you will have to implement the safety algorithm to check if it is a safe state or not. If it is a safe state then you will allocate the resource. If not then you will output that the request would cause an unsafe state. You will have to output the sequence of allocation that leads to complete unsafe state. If the allocation is not possible as unsafe state is inevitable then you will output (allocation is impossible).

Use the examples in the lecture and sheet to test your code. You need the maximum, needed, and allocated data structures in your code. The code will get as an input the maximum, needed and available system resources then it will proceed in the allocating the resources avoiding the creation of unsafe state.