TO solve this problem I am using safety algorithm:-

1. Suppose W and F are vectors of length m and n, respectively.

W = available

F[i]= false (for i = 0,1, … ,n-1) it means ,initially ,no process finished and the number of available resources is represented by available array.

1. Find an index i such that :

F[i] = false;

Need i <=W; it means, we need to find a process which need is less than available and execute that process ,if there is no process than go to step 4.

1. W = W + allocation

F[i] = true; it means, we find a process which need is less than available and execute that process and update the available resources after that again go to step 2 and find next process.

1. If F[i] = true; it means, all process have been executed and system is in safe state.