Operating system project

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**Section : K1653**

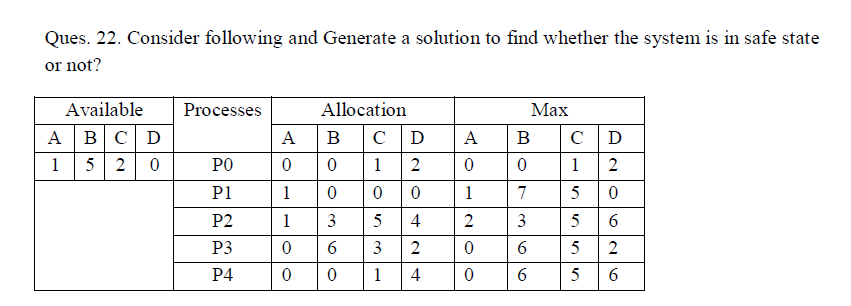
**Roll-A 11**

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**GitHub Link:** [**https://github.com/ANKIT-ANAND/K1653\_A11\_ANKIT ANAND**](https://github.com/ANKIT-ANAND/K1653_A11_ANKIT%20ANANDP)

**Question No. : 22**

**Problem:**

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**ALGORITHM:**

**1) Let Work and Finish be vectors of length ‘m’ and ‘n’ respectively.**

**Initialize: Work = Available**

**Finish[i] = false; for i=1, 2, 3, 4….n**

**2) Find an i such that both**

**a) Finish[i] = false**

**b) Needi <= Work if no such i exists goto step (4)**

**3) Work = Work + Allocation**

**Finish[i] = true**

**goto step (2)**

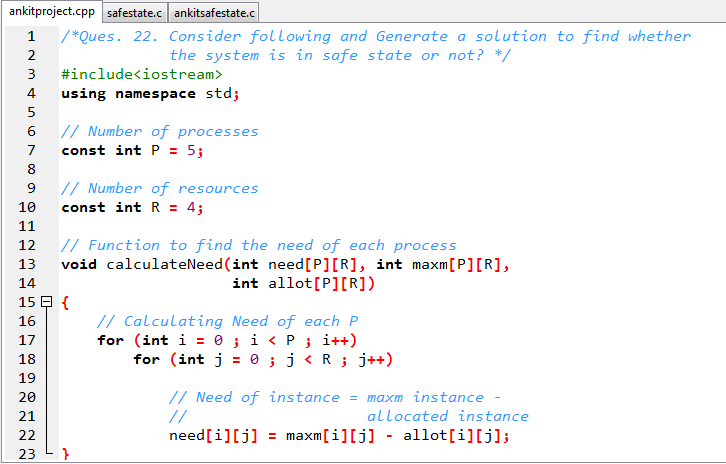
**4) If finish [i] = true for all i**

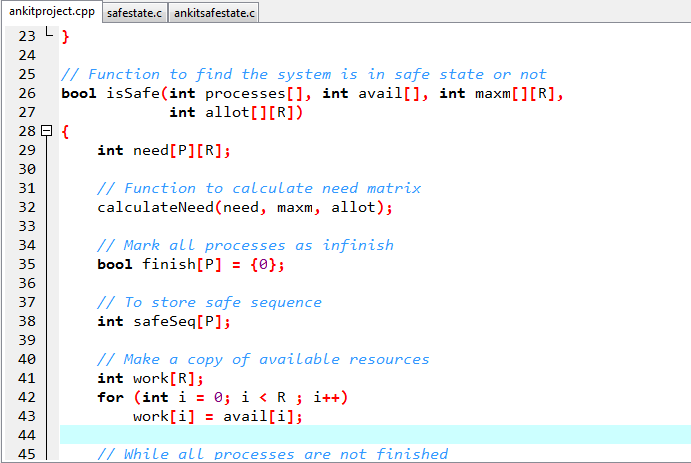
**then the system is in a safe state**

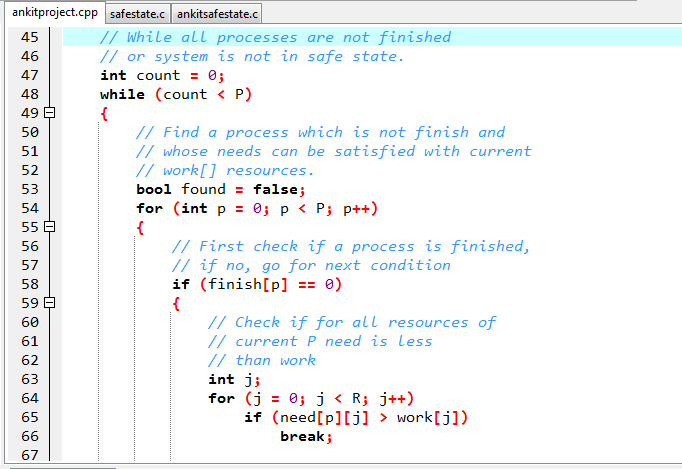
**Time Complexity:**

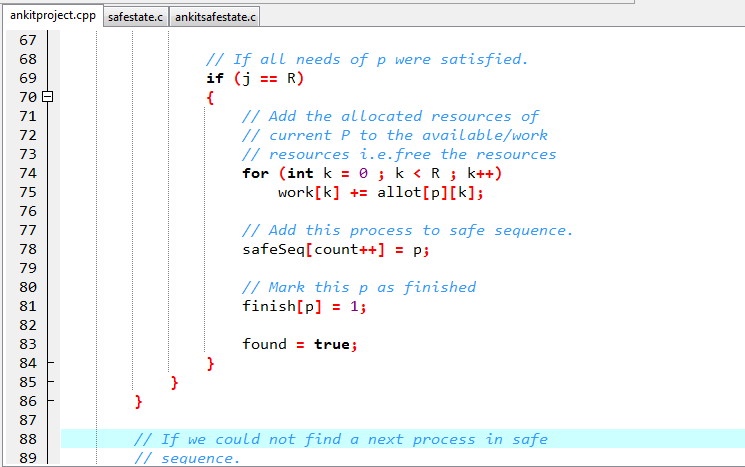
O(n\*n\*m)

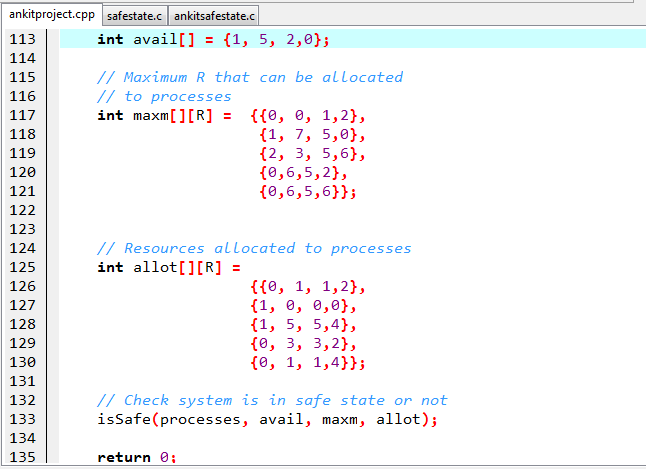
**CODE SNIPPET:**

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