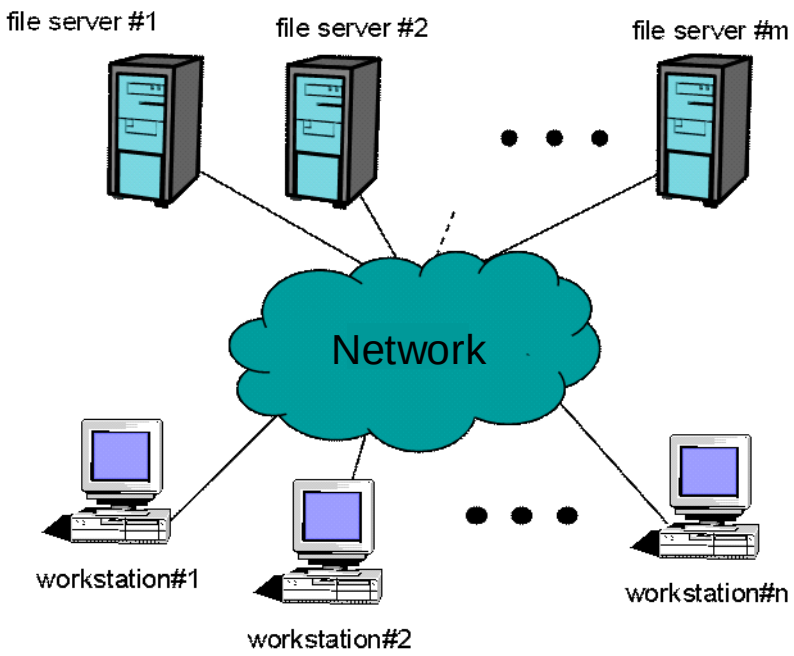
Network Technologies

Consider a network service based on a system that consists of *n* workstations and *m* file servers. The network connecting these devices is assumed to be fault-free. The system is considered to be operational so long as at least *k* workstations and *l* file servers are operational. Let R**w**(t) denote the reliability of a single workstation and R**f**(t) the reliability of a single file server. Assuming that all devices fail independently of each other, evaluate system reliability.