

The simplest possible sequencing problem is that of n job two machine sequencing problem in which we want to determine the sequence in which n -job should be processed through two machines so as to minimize the total elapsed time T .

Many operational problems in manufacturing, service and distribution require the

sequencing of various types of activities or items. Examples include a production facility

in which chassis must be sequenced through an assembly line, an express mail service

where parcels and letters must be routed for delivery, and a utility company that must

schedule repair work.

The utility of an entity or aggregate economy over a future period of time, given unknowable circumstances. It is used to evaluate decision-making under uncertainty.

The logarithm function, with a slight modification, is proposed to be a general utility function for decision making under risk or uncertainty with known probability distribution.