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## Maintenance policies for items with their repair processes modelled by the extended Poisson processes

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Optimisation of maintenance policies for items with their repair processes modelled by the geometric process (GP) has received a good amount of attention. The extended Poisson process (EPP), one of the extensions of the GP, can be used to model the repair process with its times-between-failures possessing a non-monotonic trend. A central issue in the applications of the EPPs in maintenance policy optimisation is to find when the EPP has an increasing times-between-failures. This paper aims to answer this question. Numerical examples are provided to illustrate the proposed maintenance policies.

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