I have a system that is supposed to operate for 1 day. This system has a probabilistic failure that can occur after 1 minute, with probability 0.2. If it does happen, then the failure lasts according to the uniform distribution U(1 minute, 9 minutes). A second failure can occur after 23 hours of operation, with probability 0.1. If it does happen, then the failure lasts a constant amount of time = 10 minutes.

What is the availability of this system?