

SE 333 Software Testing

Assignment 2: Software Metrics

Due date: October 1, 2019, 11:59pm (in-class and on-line students)

Late penalties: 1% late penalty per day for up to 7 days. No late submission will be accepted after the 7 day grace period.

Below are the system downtime logs for a computer system that you manage.

Week 1

Incident #	Date	Description	Down time (minutes)
1	1/7/19	Hardware failure, new server had to be provisioned	75
2	1/10/19	server crashed, automated restart	3

Week 2

Incident #	Date	Description	Down time (minutes)
4	1/14/19	server crashed, automated restart	2
5	1/15/19	server crashed, automated restart	2
6	1/16/19	server crashed, automated restart	2
7	1/17/19	server crashed, automated restart	2
8	1/18/19	server crashed, automated restart	2

- For each week calculate:
 - Mean time between failures (MTBF)
 - Mean time to recover (MTTR)
 - Availability
- On average, 20 users login every hour. Each visit lasts 15 minutes on average. Assuming no other reliability problems besides these events, what was the reliability of the system on 1/7/2019?
- How many users were affected by the event on 1/7/2019?

4. When we compare the weeks, Availability and MTBF seem to be headed in opposite directions. Why?
5. Submit your results as a Word or PDF file