## 2021-09-07

## Questions

2021-09-07

## Q1.

Consider the experiment in which we record M(t), the number of active calls at a telephone switch at time t, for each second over an interval of 15 minutes. Determine the state space and the index set of the stochastic process  $\{M(t):t\geq 0\}$ 

```
Answer State space = \{0, 1, 2, ..., 900\}
Index set = \{0, 1, 2, ...\}
```