## Assignment\_6

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## R Markdown

```
#1 ## 1.1 Q1 ##
```

## 1.1 Q2

(X=0)=1--0.5 That is, the probability of taking the value 0 is 0.5.

P(X=3)=0.25 That is, the probability of taking the value 3 is 0.25.

P(X=10)=0.25 That is, the probability of taking the value 10 is 0.25.

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
                               2.1.4
## v dplyr
         1.1.3
                    v readr
## v forcats
           1.0.0
                               1.5.0
                    v stringr
## v ggplot2 3.4.3
                    v tibble
                               3.2.1
                    v tidyr
                               1.3.0
## v lubridate 1.9.3
## v purrr
            1.0.2
## -- Conflicts ------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
               masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
set.seed(0)
n <- 1000
sample_X <- data.frame(U=runif(n)) %>%
pull(X)
```