

IT24102056

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IT2120 - Probability and Statistics

Lab 07

```
> setwd("C:\\Users\\user\\Desktop\\IT24102056")
> #Exercise
> #1
> #P(10<=X<=25)
> punif(25, min = 0, max = 40, lower.tail = TRUE) - punif(10, min = 0, max = 40, lower.tail = TRUE)
[1] 0.375
> #2
> pexp(2, rate = 1/3, lower.tail = TRUE)
[1] 0.4865829
> #3
> #i)
> pnorm(130, mean = 100, sd = 15, lower.tail = FALSE)
[1] 0.02275013
> #ii)
> qnorm(0.95, mean = 100, sd = 15, lower.tail = TRUE)
[1] 124.6728
```