

State machines

To have this assignment evaluated for the in-class exam, please upload on WeBeep a ZIP file including:

- the source code used to solve this assignment
- this file, with the table below properly filled

Name (Family + given)	Romito Alessandro
Student ID (codice persona)	10661916
QR-code ID (8 digits of the QR that was given you)	34392705
Sensing probability	0.518723
Using CPU probability	0.262429
Turning on the Heat pump	0.11666
Turning on the Air conditioning	0.102188
Sensing frequency	0.0174495
<p>State machine drawing:</p> <pre> graph LR S[Sensor sensing] -- "Erlang <lambda=0.1, k=3>" --> C[CPU data processing] C -- "Uniform <a=10, b=20>" --> D{ } D -- "30% prob" --> A[Activation of air conditioning system] D -- "20% prob" --> B[Activation of heat pump system] A -- "50% prob" --> S B -- "Exponential <lambda=0.05>" --> S S -- "Exponential <lambda=0.03>" --> S </pre> <p>Node 1: Sensor sensing Node 2: CPU data processing Node 3: Activation of air conditioning system Node 4: Activation of heat pump system</p>	