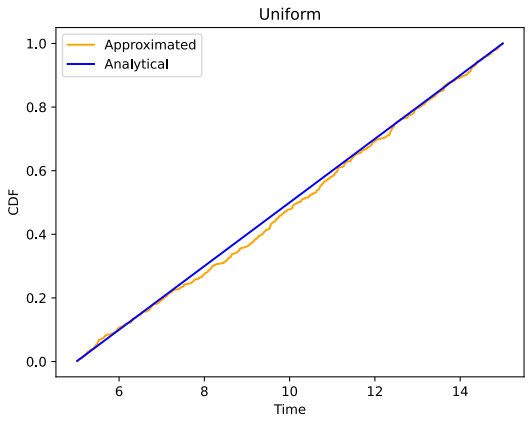
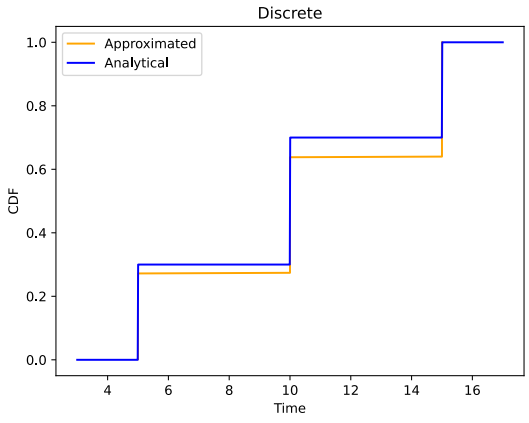
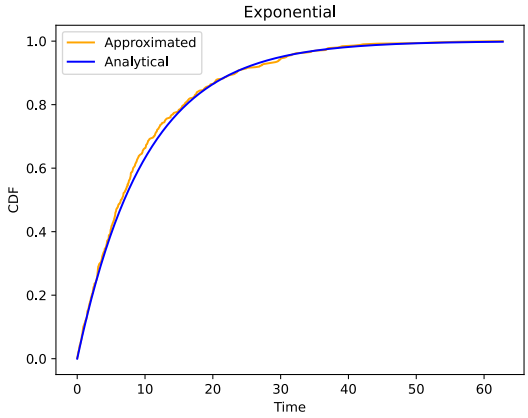
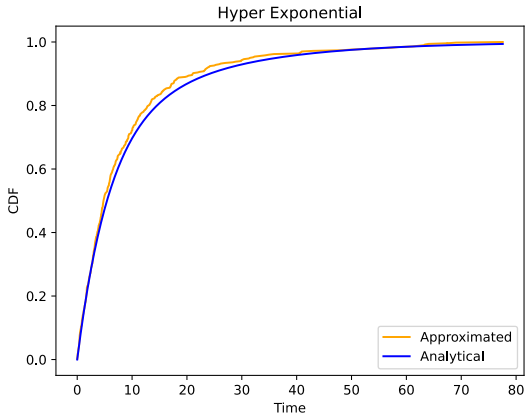
Workloads Types

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

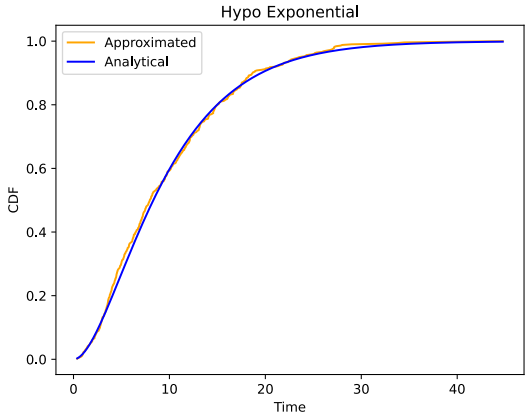
- the source code used to solve this assignment
- this file, with the table below properly filled

Name (Family + given)			Giovanni Demasi
Student ID (codice persona)			10656704
QR-code ID (8 digits of the QR that was given you)			71847928
Distribution 1	First 10 samples generated		x_1 = 13,0430
	x_2 = 12,3785	x_3 = 7,1318	x_4 = 13,0406
	x_5 = 11,4217	x_6 = 10,4814	x_7 = 13,7066
	x_8 = 6,4028	x_9 = 12,5132	x_{10} = 10,3493
	Plot comparing the analytical CDF, with the one from generated samples: 		
Distribution 2	First 10 samples generated		x_1 = 5
	x_2 = 10	x_3 = 10	x_4 = 5
	x_5 = 10	x_6 = 10	x_7 = 5
	x_8 = 10	x_9 = 15	x_{10} = 15
	Plot comparing the analytical CDF, with the one from generated samples: 		

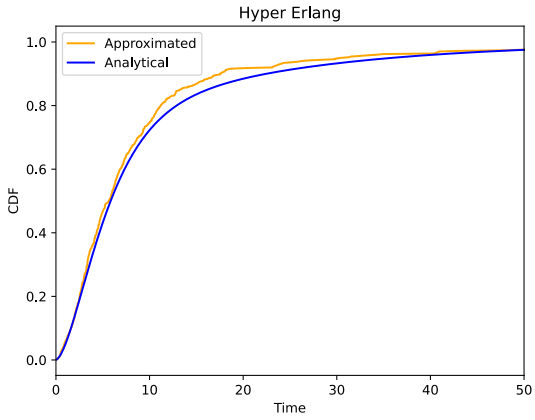
Distribution 3			
	First 10 samples generated		$x_1 = 2,1778$
	$x_2 = 3,0401$	$x_3 = 15,4564$	$x_4 = 2,1809$
	$x_5 = 4,4290$	$x_6 = 6,0122$	$x_7 = 1,3850$
	$x_8 = 19,6414$	$x_9 = 2,8593$	$x_{10} = 6,2562$
	Plot comparing the analytical CDF, with the one from generated samples: 		

Distribution 4			
	First 10 samples generated		$x_1 = 4,3556$
	$x_2 = 1,7372$	$x_3 = 8,8322$	$x_4 = 4,3617$
	$x_5 = 2,5308$	$x_6 = 3,4355$	$x_7 = 2,7700$
	$x_8 = 11,2237$	$x_9 = 1,6339$	$x_{10} = 3,5750$
	Plot comparing the analytical CDF, with the one from generated samples: 		

Distribution 5			
	First 10 samples generated		x_1 = 27,1904
	x_2 = 1,8834	x_3 = 12,0880	x_4 = 3,6751
	x_5 = 3,3385	x_6 = 10,5915	x_7 = 1,2318
	x_8 = 8,0852	x_9 = 5,7812	x_{10} = 4,9672
	Plot comparing the analytical CDF, with the one from generated samples:		



Distribution 6			
	First 10 samples generated		x_1 = 4,3556
	x_2 = 1,1864	x_3 = 7,2283	x_4 = 4,3617
	x_5 = 2,0116	x_6 = 5,6162	x_7 = 2,7700
	x_8 = 5,7207	x_9 = 3,0253	x_{10} = 2,9612
	Plot comparing the analytical CDF, with the one from generated samples:		



Clarification about columns used

As requested by the assignment specification, for the uniform and exponential distributions it has been used the second column, while for the discrete distribution the first column has been used.
For the hyper-exponential, the first column has been used for branch selection, while the second column has been used to generate the sample.
The hypo-exponential samples have been generated using the second and third column.
Lastly, for the hyper-erlang, the first column has been used for branch selection, the second column has been used for the first branch while the second and third column together have been used for the second branch.