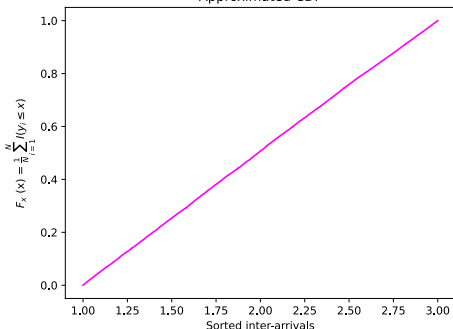


Workloads Types

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

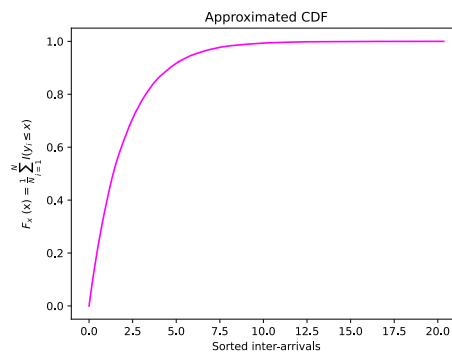
- the source code used to solve this assignment
- this file, with the table below properly filled

Name (Family + given)					Demasi Giovanni	
Student ID (codice persona)					10656704	
QR-code ID (8 digits of the QR that was given you)					71847928	
Data1.txt	1 st Moment				1,9904	
	2 nd Moment				4,2934	
	3 rd Moment				9,8705	
	4 th Moment				23,8131	
	5 th Moment				59,5526	
	2 nd Central Moment [Variance]				0,3319	
	3 rd Central Moment				0,0039	
	4 th Central Moment				0,1998	
	5 th Central Moment				0,0056	
	3 rd Standardized Moment [Skewness]				0,0203	
	4 th Standardized Moment				1,8139	
	5 th Standardized Moment				0,0877	
	Standard deviation				0,5761	
	Coefficient of variation				0,2894	
	Kurtosis				-1,1861	
	10%	25%	50%	75%	90%	Percentile
	1,1962	1,4928	1,9878	2,4821	2,7948	←
Lag $m=1$		Lag $m=2$		Lag $m=3$		Cross-covariance
0,0006		0,0019		-0,0031		←
Lag $m=1$		Lag $m=2$		Lag $m=3$		Pearson corr. Coeff.
0,0019		0,0057		-0,0093		←
CDF from samples:						
						

Data2.txt

1 st Moment					2,0130
2 nd Moment					8,0563
3 rd Moment					48,1474
4 th Moment					383,1290
5 th Moment					3801,4381
2 nd Central Moment [Variance]					4,0042
3 rd Central Moment					15,8092
4 th Central Moment					142,0615
5 th Central Moment					1371,3267
3 rd Standardized Moment [Skewness]					1,9730
4 th Standardized Moment					8,8601
5 th Standardized Moment					42,7408
Standard deviation					2,0011
Coefficient of variation					0,9941
Kurtosis					5,8601
10%	25%	50%	75%	90%	Percentile ←
0,2107	0,5820	1,3847	2,8120	4,6369	
Lag $m=1$		Lag $m=2$		Lag $m=3$	Cross-covariance ←
0,0048		0,0103		-0,0424	
Lag $m=1$		Lag $m=2$		Lag $m=3$	Pearson corr. Coeff. ←
0,0012		0,0026		-0,0106	

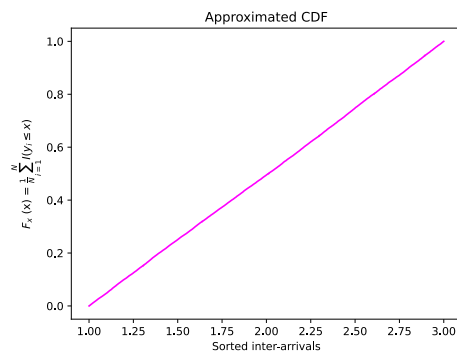
CDF from samples:



Data3.txt

1 st Moment					2,0040
2 nd Moment					4,3516
3 rd Moment					10,0632
4 th Moment					24,3964
5 th Moment					61,2459
2 nd Central Moment [Variance]					0,3357
3 rd Central Moment					-0,0026
4 th Central Moment					0,2017
5 th Central Moment					-0,0030
3 rd Standardized Moment [Skewness]					-0,0135
4 th Standardized Moment					1,7898
5 th Standardized Moment					-0,0464
Standard deviation					0,5794
Coefficient of variation					0,2891
Kurtosis					-1,2102
10%	25%	50%	75%	90%	Percentile
1,1982	1,4992	2,0111	2,5032	2,8027	←
Lag $m=1$		Lag $m=2$		Lag $m=3$	Cross-covariance
0,2646		0,2103		0,1673	←
Lag $m=1$		Lag $m=2$		Lag $m=3$	Pearson corr. Coeff.
0,7883		0,6264		0,4984	←

CDF from samples:



Data4.txt

1 st Moment					2,0329
2 nd Moment					24,6241
3 rd Moment					671,7377
4 th Moment					25310,0539
5 th Moment					1187192,4665
2 nd Central Moment [Variance]					20,4912
3 rd Central Moment					538,3628
4 th Central Moment					20406,9915
5 th Central Moment					955754,4333
3 rd Standardized Moment [Skewness]					5,8039
4 th Standardized Moment					48,6007
5 th Standardized Moment					502,8349
Standard deviation					4,5267
Coefficient of variation					2,2267
Kurtosis					45,6007
10%	25%	50%	75%	90%	Percentile ←
0,1151	0,3284	0,8066	1,7568	3,7362	
Lag $m=1$		Lag $m=2$		Lag $m=3$	Cross-covariance ←
-0,0133		0,0294		-0,1073	
Lag $m=1$		Lag $m=2$		Lag $m=3$	Pearson corr. Coeff. ←
-0,007		0,0014		-0,0052	
CDF from samples:					
<div> <div>Approximated CDF</div> </div>					

Clarification about units of measure

Given that x is the unit of measure of the input samples, the unit of measure of standard deviation and percentile is the same of the input samples, so x . Cross covariance is characterized by a unit of measure given by the product of the samples unit of measure, so x^2 .

Instead, the unit of measure of the n^{th} moment and the n^{th} central moment is x^n .

Standardized moments, coefficient of variation, Kurtosis and Pearson correlation coefficients are dimensionless numbers.