**les listes d’acquisition:**

avec roue:

L=[-140,-159,-179,166,159,159,169,-178,-166,-158,-160,-164,-176,173,163,161,164,172,-177,-165,-160,-162,-168,-179,171,163,163,167,176,-173,-165,-162,-164,-171,178,169,165,164,171,-179,-172,-165,-164,-168,-175,176,169,166,168,174,-177,-169,-166,-165,-171,-178,174,170,168,173,176,-175,-169,-168,-169,-174,178,173,170,171,175,-179,-173,-169,-170,-172,-177,176,173,172,173,177,-177,-172,-170,-171,-175,179,175,172,173,176,-179,-175,-173,-172,-175,-178,177,175,174,176,179,-177,-174,-173,-174,-177,179,176,175,176,178,-178,-176,-175,-175,-176,-179,178,177,176,178,-179,-177,-175,-175,-177,-178,179,177,178,178,-179,-177,-176,-176,-177,-178,179,178,178,178,-179,-178,-177,-177,-177,-178,179,178,178,179,-179,-178,-177,-177,-178,-179,179,179,178,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-179,-178,-177,-177,-178,-179,179,179,179,-179,-179,-178,-177,-177,-178,-179,179,179,179,-179,-179,-178,-177,-178,-178,-179,179,179,179,-179,-178,-178,-177,-178,-178,-179,179,179]

A=[-140,-141,-162,176,164,158,162,172,-175,-163,-157,-160,-166,-179,170,161,160,164,175,-174,-163,-160,-162,-170,178,168,163,163,169,178,-172,-163,-162,-165,-173,176,169,164,166,173,-178,-170,-165,-164,-169,-177,174,167,167,170,176,-175,-168,-165,-167,-173,179,173,168,169,173,179,-172,-168,-168,-170,-177,176,171,169,172,176,-176,-171,-169,-170,-174,179,175,171,171,175,178,-175,-171,-171,-172,-177,177,173,173,173,177,-177,-174,-172,-173,-175,-179,176,174,175,177,-179,-176,-173,-173,-175,-178,178,176,175,176,179,-177,-175,-174,-175,-177,179,177,177,177,178,-178,-176,-175,-176,-177,-179,178,177,177,179,-178,-177,-176,-176,-177,-179,179,178,178,179,-179,-177,-177,-177,-178,-179,179,178,178,179,-179,-178,-177,-177,-178,-179,179,178,179,179,-178,-177,-177,-177,-178,-179,179,178,179,-179,-178,-177,-177,-177,-178,-179,179,178,179,-179,-178,-177,-177,-178,-178,-179,179,178,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-178,-178,-177,-178,-178,-179,179,179,179,-179,-178,-178,-177,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-179,179,179,179,179,-179,-178,-178,-178,-178,-179,179,179,179,179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-179,-179,179,179,179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-179,-178,-178,-178,-179,-179,179,179,179,-179,-178,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-179,-179,179,179,179,-179,-178,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-178,-179,-179,179,179]

B=[-144,-142,-141,-141,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-141,-156,-175,168,160,161,168,-179,-169,-159,-159,-164,-174,173,165,160,161,171,-177,-166,-160,-161,-167,-177,172,164,162,166,174,-174,-167,-162,-163,-170,-179,171,165,164,170,178,-173,-166,-164,-167,-173,178,169,166,167,173,-179,-171,-166,-166,-170,-177,175,169,168,171,175,-176,-171,-169,-169,-173,179,175,170,170,173,179,-174,-171,-169,-171,-176,178,173,171,173,176,-177,-172,-171,-171,-174,-179,176,174,173,175,179,-175,-173,-172,-173,-177,178,175,174,175,178,-178,-175,-173,-174,-176,-179,177,176,176,177,-179,-177,-175,-174,-176,-178,178,177,176,177,-179,-178,-176,-175,-177,-178,179,178,178,178,-179,-178,-177,-176,-177,-178,179,178,178,179,-179,-178,-177,-177,-177,-178,179,178,178,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-179,-178,-177,-177,-178]

C=[-154,-148,-143,-142,-141,-141,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-140,-146,-166,173,162,159,164,174,-170,-161,-158,-161,-169,178,166,161,160,168,177,-170,-161,-160,-163,-174,175,165,163,165,172,-178,-168,-162,-163,-168,-177,173,167,164,167,176,-174,-167,-164,-165,-172,178,172,167,167,171,179,-172,-167,-166,-169,-175,177,170,169,170,175,-177,-171,-168,-168,-172,-178,175,170,170,173,178,-175,-171,-169,-171,-175,179,174,171,172,176,-179,-173,-171,-171,-173,-178,177,174,173,175,178,-177,-173,-172,-173,-176,179,176,174,175,177,-179,-175,-174,-174,-176,-179,178,176,175,177,-179,-177,-175,-174,-176,-178,179,177,177,177,179,-178,-176,-175,-176,-177,-179,178,178,178,179,-178,-177,-177,-177,-178,-179,178,178,178,179,-178,-177,-177,-177,-178,-179,179,178,179,-179,-178,-177,-177,-178,-178,179,179,178,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-179,-178,-177,-177,-178,-179,179,179,179,179,-179,-178,-177,-178,-178,-179,179,179,179,-179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-179,-179,179,179,179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-178,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-179,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-178,-179,179,179,179,-179,-179,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-178,-179,-179,179,-179,-179,-178,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-179,-179,179,179,-179,-179,-178,-178,-178,-179,-179,-179,-179,-179,-179,-178,-178,-178,-178,-179,-179,179,-179,-179,-179,-178,-178,-178,-179,-179,-179,-179,-179,-179,-178,-178,-178,-179,-179,-179,-179,-179,-179,-178,-178,-178,-179,-179,-179,-179,-179,-179,-179,-178,-178,-179,-179,-179]

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sans la roue:

L1=[-4.71,-8.19,-11.63,-14.98,-18.26,-21.49,-24.64,-27.72,-30.75,-33.74,-36.64,-39.49,-42.29,-45.04,-47.71,-50.34,-52.91,-55.45,-57.93,-60.34,-62.74,-65.05,-67.32,-69.58,-71.76,-73.91,-76.03,-78.08,-80.10,-82.09,-84.02,-85.92,-87.80,-89.62,-91.41,-93.18,-94.88,-96.57,-98.23,-99.84,-101.42,-102.98,-104.49,-105.96,-107.42,-108.87,-110.26,-111.61,-112.97,-114.30,-115.59,-116.84,-118.10,-119.33,-120.52,-121.67,-122.83,-123.96,-125.05,-126.12,-127.18,-128.23,-129.23,-130.21,-131.20,-132.16,-133.09,-133.99,-134.90,-135.78,-136.63,-137.46,-138.30,-139.12,-139.91,-140.69,-141.46,-142.22,-142.93,-143.64,-144.35,-145.04,-145.68,-146.33,-146.96,-147.58,-148.17,-148.78,-149.38,-149.98,-150.54,-151.10,-151.66,-152.22,-152.75,-153.26,-153.78,-154.29,-154.76,-155.24,-155.72,-156.19,-156.64,-157.09,-157.56,-158.00,-158.42,-158.85,-159.28,-159.69,-160.08,-160.48,-160.88,-161.25,-161.60,-161.96,-162.33,-162.67,-163.00,-163.33,-163.67,-164.00,-164.29,-164.60,-164.91,-165.20,-165.47,-165.76,-166.04,-166.30,-166.56,-166.81,-167.08,-167.33,-167.57,-167.81,-168.05,-168.26,-168.45,-168.65,-168.85,-169.04,-169.23,-169.42,-169.62,-169.79,-169.98,-170.16,-170.35,-170.50,-170.66,-170.84,-171.01,-171.16,-171.30,-171.45,-171.60,-171.74,-171.87,-171.99,-172.15,-172.28,-172.43,-172.56,-172.71,-172.82,-172.96,-173.08,-173.22,-173.34,-173.47,-173.59,-173.74,-173.87,-174.01,-174.17,-174.32,-174.47,-174.62,-174.77,-174.92,-175.07,-175.20,-175.36,-175.50,-175.64,-175.76,-175.93,-176.04,-176.20,-176.33,-176.71,-176.76,-177.14,-177.33,-177.58,-177.88,-178.16,-178.46,-178.77,-179.07,-179.31,-179.57,-179.80,179.93,179.68,179.44,179.18,178.91,178.65,178.38,178.08,177.81,177.53,177.27,176.96,176.65,176.32,176.01,175.70,175.39,175.09,174.80,174.46,174.15,173.84,173.53,173.29,172.90,172.61,172.40,172.10,171.82,171.55,171.24,170.86,170.59,170.30,170.02,169.77,169.50,169.20,168.95,168.69,168.41,168.17,167.89,167.68,167.48,167.23,166.99,166.74,166.46,166.15,165.87,165.70,165.53,165.36,165.13,164.90,164.65,164.41,164.17,163.93,163.69,163.49,163.28,163.07,162.89,162.70,162.48,162.27,162.04,161.84,161.66,161.47,161.25,161.06,160.87,160.67,160.51,160.34,160.18,160.01,159.83,159.65,159.53,159.40,159.24,159.06,158.83,158.67,158.53,158.36,158.23,158.09,157.91,157.74,157.62,157.51,157.41,157.26,157.13,157.01,156.87,156.73,156.61,156.47,156.33,156.22,156.12,156.02,155.93,155.84,155.76,155.69,155.61,155.51,155.44,155.36,155.28,155.17,155.06,154.94,154.85,154.80,154.72,154.61,154.50,154.36,154.25,154.14,154.05,153.96,153.88,153.81,153.70,153.59,153.49,153.38,153.27,153.16,153.04,152.95,152.84,152.73,152.62,152.52,152.43,152.33,152.24,152.19,152.10,152.02,151.93,151.88,151.79,151.72,151.65,151.58,151.52,151.47,151.43,151.41,151.34,151.32,151.27,151.24,151.20,151.20,151.19,151.18,151.18,151.18,151.18,151.20,151.25,151.30,151.39,151.54,151.77,152.15,152.63,153.32,154.38,155.55,156.71,157.94,158.87,158.54,159.71,161.05,162.60,164.22,165.16,166.34,167.53,168.77,169.99,171.32,172.61,173.80,174.83,176.15,177.31,178.66,179.76,-178.82,-177.37,-175.91,-174.36,-173.05,-171.65,-170.31,-169.02,-167.56,-166.31,-164.98,-163.94,-162.85,-161.45,-160.24,-159.27,-158.48,-157.74,-156.71,-156.10,-155.50,-154.94,-154.49,-154.06,-153.59,-153.31,-153.06,-153.07,-153.19,-153.28,-151.50,-151.40,-151.60,-151.93,-152.10,-152.51,-153.01,-153.52,-153.93,-154.50,-155.14,-155.82,-156.59,-157.32,-158.25,-159.31,-160.32,-161.35,-162.42,-163.63,-164.89,-166.05,-167.32,-168.61,-169.97,-171.23,-172.48,-173.59,-175.07,-176.54,-178.01,-179.16,179.61,178.39,177.20,176.04,174.83,173.73,172.66,171.69,170.77,169.63,168.67,167.75,166.84,165.85,165.10,164.20,163.47,162.85,162.28,160.66,159.79,159.18,158.53,158.18,157.52,157.07,156.73,156.47,156.28,156.09,155.98,155.93,155.75,155.80,155.89,155.99,156.17,156.38,156.60,156.92,157.27,157.66,158.11,158.55,159.42,160.35,161.25,162.13,161.62,162.90,163.79,164.66,165.40,165.87,166.91,168.02,168.64,169.43,170.42,171.62,172.41,173.37,174.42,175.48,176.48,177.49,178.54,179.55,-179.10,-177.91,-176.70,-175.45,-174.23,-172.95,-171.80,-170.64,-169.40,-168.27,-167.01,-165.94,-164.71,-163.85,-162.96,-161.94,-160.91,-160.11,-159.35,-158.66,-157.85,-157.33,-156.82,-156.34,-155.96,-155.62,-155.41,-155.35,-155.44,-155.44,-153.64,-153.40,-153.21,-153.39,-153.61,-153.85,-154.14,-154.45,-154.80,-155.20,-155.66,-156.24,-156.85,-157.51,-158.18,-159.03,-159.86,-160.71,-161.69,-162.67,-163.65,-164.77,-165.81,-166.88,-168.04,-169.24,-170.75,-171.90,-173.00,-174.17,-175.45,-176.66,-177.63,-178.92,179.73,178.84,177.66,176.65,175.74,174.88,173.91,172.95,171.87,170.85,169.98,169.22,168.44,167.68,166.83,166.17,165.58,165.02,164.33,163.31,162.33,161.88,161.44,161.14,160.64,160.22,159.81,159.56,159.27,159.10,158.96,158.89,158.77,158.79,158.84,158.97,159.13,159.29,159.50,159.78,160.12,160.46,161.09,161.81,162.49,163.00,162.70,163.84,164.87,165.78,166.55,166.74,167.56,168.51,169.31,169.99,170.90,171.82,172.65,173.43,174.27,175.31,176.22,177.08,178.19,179.11,179.99,-178.93,-177.84,-176.77,-175.70,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7.78,-177.28,-176.77,-176.14,-175.56,-175.09,-174.69,-174.28,-173.78,-173.36,-172.97,-172.80,-172.41,-171.97,-171.67,-171.44,-171.22,-170.89,-170.51,-169.85,-169.44,-169.30,-169.21,-169.03,-168.82,-168.77,-168.72,-168.64,-168.59,-168.61,-168.67,-168.74,-168.83,-168.93,-169.02,-169.18,-169.36,-169.65,-169.83,-170.16,-170.56,-170.76,-170.78,-171.13,-171.42,-171.81,-172.21,-172.59,-173.00,-173.50,-173.88,-174.33,-174.84,-175.30,-175.85,-176.32,-176.77,-177.21,-177.68,-178.20,-178.74,-179.22,-179.68,179.86,179.39,179.03,178.64,178.30,177.90,177.49,177.03,176.69,176.36,176.06,175.73,175.45,175.13,174.93,174.73,174.58,174.43,174.28,174.05,173.94,173.74,173.32,173.30,173.27,173.27,173.18,173.12,173.14,173.07,173.07,173.06,173.08,173.09,173.13,173.22,173.32,173.46,173.61,173.79,174.04,174.16,174.35,174.51,174.79,175.00,175.24,175.51,175.79,176.07,176.35,176.67,176.97,177.27,177.62,177.95,178.30,178.61,179.03,179.41,179.70,-179.93,-179.54,-179.13,-178.72,-178.28,-177.87,-177.44,-176.99,-176.56,-176.03,-175.63,-175.26,-174.90,-174.56,-174.25,-173.83,-173.53,-173.45,-173.16,-172.89,-172.61,-172.44,-172.23,-172.06,-171.87,-171.58,-171.32,-171.11,-171.17,-171.16,-171.07,-170.72,-170.72,-170.76,-170.79,-170.76,-170.86,-170.96,-171.05,-171.15,-171.27,-171.43,-171.60,-171.75,-172.04,-172.22,-172.48,-172.81,-172.85,-173.17,-173.59,-173.85,-174.13,-174.42,-174.74,-175.10,-175.47,-175.83,-176.20,-176.57,-176.95,-177.35,-177.75,-178.17,-178.56,-178.93,-179.40,-179.79,179.85,179.51,179.23,178.80,178.40,178.09,177.81,177.54,177.32,177.04,176.82,176.60,176.39,176.14,175.96,175.72,175.43,175.07,174.92,174.81,174.63,174.43,174.22,174.12,174.09,174.16,174.21,174.13,174.25,174.40,174.43,174.44,174.50,174.32,173.88,173.96,174.07,174.20,174.26,174.38,174.52,174.36,174.63,174.85,174.98,175.23,175.42,175.60,175.80,176.06,176.31,176.58,176.84,177.09,177.40,177.72,177.98,178.28,178.59,178.87,179.14,179.46,179.81,-179.93,-179.57,-179.20,-178.86,-178.44,-178.09,-177.76,-177.40,-176.89,-176.51,-176.22,-175.91,-175.60,-175.35,-175.11,-174.81,-174.59,-174.39,-174.21,-174.12,-173.81,-173.55,-173.40,-173.31,-173.25,-173.15,-173.10,-173.06,-172.84,-172.57,-172.49,-172.51,-172.49,-172.44,-172.50,-172.55,-172.48,-172.53,-172.63,-172.71,-172.79,-172.90,-173.21,-173.47,-173.70,-173.91,-174.12,-174.36,-174.59,-174.84,-175.12,-175.38,-175.62,-175.96,-176.18,-176.54,-176.91,-177.11,-177.43,-177.79,-178.07,-178.44,-178.72,-178.99,-179.32,-179.67,179.99,179.73,179.48,179.19,178.97,178.73,178.48,178.27,178.01,177.80,177.60,177.40,177.13,176.94,176.76,176.60,176.44,176.26,176.13,176.09,175.92,176.01,176.15,176.18,176.11,176.14,176.15,175.04,175.01,175.13,175.21,175.27,175.37,175.08,175.22,175.36,175.49,175.58,175.68,175.80,175.98,176.16,176.25,176.36,176.49,176.62,176.77,176.93,177.11,177.26,177.42,177.63,177.91,178.18,178.36,178.59,178.83,179.05,179.30,179.55,179.76,179.97,-179.80,-179.54,-179.24,-178.98,-178.69,-178.43,-178.15,-177.85,-177.60,-177.35,-176.97,-176.56,-176.29,-176.08,-175.87,-175.69,-175.53,-175.34,-175.19,-175.06,-174.90,-174.80,-174.75,-174.65,-174.64,-174.58,-174.50,-174.43,-174.36,-174.36,-174.21]

pour le système sans la roue la durée d’acquisition est de 10 ms

en effet, la durée minimale d’acquisition de la centrale inertielle est de 10 ms, (point important à expliquer pour la présentation)

La liste qui à servi à faire la regression: L3 à partir de 348

[141.5, 141.52, 141.55, 141.59, 141.64, 141.69, 141.74, 141.8, 141.88, 141.98, 1

42.09, 142.47, 142.82, 143.21, 143.76, 144.35, 144.94, 146.11, 147.13, 148.48, 1

49.69, 151.0, 152.31, 153.66, 155.02, 156.56, 158.07, 159.48, 160.31, 161.84, 16

3.46, 165.37, 166.43, 167.28, 169.33, 171.1, 172.4, 174.42, 175.87, 177.6, 179.3

, -179.11, -177.08, -175.34, -173.29, -171.6, -170.16, -169.11, -167.15, -165.19

, -163.8, -162.25, -160.52, -158.71, -157.31, -156.0, -154.77, -153.68, -152.53,

-152.07, -151.15, -150.29, -149.62, -148.85, -148.28, -147.83, -147.5, -147.2,

-147.05, -147.18, -147.19, -146.65, -146.9, -147.01, -147.24, -147.51, -147.85,

-148.36, -149.35, -149.73, -150.53, -151.3, -152.14, -153.12, -154.16, -155.2, -

156.36, -157.53, -158.81, -160.19, -161.33, -162.81, -164.21, -165.6, -167.19, -

168.7, -170.26, -171.82, -173.51, -175.36, -177.15, -178.72, 179.65, 178.19, 176

.61, 175.18, 173.83, 172.48, 170.94, 169.62, 168.18, 166.91, 165.78, 164.61, 163

.48, 162.35, 161.11, 160.07, 158.97, 158.0, 156.72, 155.74, 155.0, 154.35, 153.7

9, 153.17, 152.63, 151.96, 151.61, 151.48, 150.87, 150.59, 150.56, 150.47, 150.0

8, 149.89, 149.79, 149.91, 150.2, 150.46, 150.73, 150.85, 151.0, 151.46, 152.04,

152.6, 153.22, 153.92, 154.6, 155.32, 156.12, 157.01, 157.73, 158.5, 159.42, 16

0.34, 161.36, 162.49, 163.62, 164.69, 165.87, 167.34, 168.61, 170.17, 171.23, 17

2.45, 173.78, 175.01, 176.21, 177.72, 179.05, -179.75, -178.29, -176.8, -175.07,

-173.44, -171.92, -170.41, -168.9, -167.21, -165.55, -164.12, -162.79, -161.71,

-160.21, -159.04, -157.9, -156.75, -155.42, -154.12, -153.0, -152.1, -151.33, -

150.58, -149.86, -149.14, -148.46, -147.86, -147.48, -147.22, -146.9, -146.79, -

146.77, -146.87, -147.07, -147.41, -147.75, -148.39, -149.16, -149.13, -149.67,

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-158.58, -159.55, -160.7, -162.01, -163.24, -164.63, -166.08, -167.45, -168.95,

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