1-Fazendo a samples:

CPU:

1-

```
> amostraCPU <- sample(Teste23$CPU.Total, 200)
> amostraCPU
  [1] 13.281250  8.076924  7.849705  8.593750 10.000002  7.031250 12.890625  7.031250  9.765625  6.250000
 [11] 10.156250  3.125000  8.984375 10.156250  5.859375  1.562500 16.923082  5.468750  3.906250 18.076920
 [21] 14.843750  4.687500 13.281250 10.546875  7.812500 21.093750  7.812500 10.769224 33.203125  4.687500
 [31]  6.250000  5.859375  6.640625 10.937500 93.750000 91.796875 11.328125  7.031250 49.218750  5.859375
 [41] 12.890625  5.078125  5.468750 13.076925 75.000000 12.109375  8.846151 10.156250 15.625000  2.734375
 [51]  6.640625  5.468750 13.671875  3.906250 76.923080 89.615380 14.615381  1.953125 10.913462 17.187500
 [61]  2.343750 12.109375  7.031250 13.671875  3.515625 13.461542 10.937500  5.078125 11.328125 82.421875
 [71] 17.578125 12.500000 11.328125  7.031250  3.076923  7.031250  8.846151 39.999996  9.375000  4.687500
 [81] 11.718750  5.468750  7.812500 44.921875 22.307693  4.296875 12.109375  5.078125  6.640625 11.328125
 [91] 19.230770  9.375000  3.461540 26.562500 17.307693  7.812500 85.384610 11.328125  5.859375 11.153841
[101]  8.593750 13.846159  4.230767 10.384619  5.859375 15.625000  3.846157  7.812500 10.156250  7.794470
[111] 14.843750 14.453125 11.718750  2.734375  1.562500 13.281250 11.328125 18.461536 16.538460  4.230773
[121] 13.671875 12.463940  2.343750  9.230768  4.699898 11.328125 88.671875  3.906250  4.687500  5.468750
[131] 25.000000  5.859375 19.140625 11.718750  3.918648  5.066109  9.765625 21.484375 92.307690  9.375000
[141] 10.024035  3.906250  9.765625 10.156250 11.153841 87.109375 78.515625  7.674825  5.078125 33.203125
[151]  9.615385 14.453125  4.230767  4.687500  1.953125  4.296875  5.769229 11.718750 10.114182  7.031250
[161]  9.230768  6.250000 13.281250 17.692310  7.446676 13.671875  5.060095  3.912449  6.250000 18.030750
[171]  5.372959 13.461542 10.000002 28.076923 14.453125  3.906250 98.828125  5.060095 19.921875  5.468750
[181] 16.538460  4.296875 18.750000  5.096727  9.765625  5.468750  4.303074  4.706102 25.384617 10.937500
[191]  3.906250 19.531250  4.230773  5.078125  7.794470 10.769224 17.578125 91.153850 10.156250  5.487352
```

2-

```
> amostraCPU2 <- sample(Teste23$CPU.Total, 200)
> amostraCPU2
  [1] 13.461536 14.615381  2.343750  3.846157 73.461540  5.468750  3.906250  7.812500 13.846153  5.859375
 [11]  8.234125  3.125000 47.265625 19.531250  3.515625 21.484375 19.230764  4.230773  3.924853  8.593750
 [21] 30.859375  5.859375  4.230767 10.156250  2.734375  6.250000  1.562500  8.593750  5.859375 13.671875
 [31]  7.031250 11.328125 16.406250 10.156250 18.359375  6.250000  3.515625 14.615381  5.859375  5.468750
 [41]  9.375000 14.843750  3.906250  6.250000  7.421875  4.296875 10.546875 16.694714 15.290176 14.453125
 [51]  7.812500  9.765625  4.687500  5.078125 24.609375  3.822839  9.723557  5.890375 12.307692  3.515625
 [61]  4.657454  5.468750  4.687500  5.468750  4.296875  2.734375  3.924853  3.125000 17.307686 11.328125
 [71]  5.066109 13.671875 90.769230  6.653023 10.156250 14.230776  9.615385 17.968750  4.296875  4.272837
 [81]  1.562500  5.462742  1.953125 17.187500 11.328125  5.859375 11.718750 15.769232  8.461541 13.671875
 [91]  9.375000 13.671875 10.156250  5.468750  7.692307  9.375000 12.890625 15.384615  5.841345 10.156250
[101]  3.906250  3.906250 15.234375 14.062500 89.615380 10.769224  2.343750  9.765625 30.859375  5.384612
[111]  4.278845 11.718750 10.769236 10.937500  1.953125 10.000002 14.062500 91.796875  8.593750 15.234375
[121]  3.906250 71.153850 77.692310 76.171875  8.984375 12.307697 13.671875 10.621280  4.687500 11.882281
[131] 76.953125 13.671875  7.812500 48.828125  7.031250  6.250000  6.640625 19.531250  6.610579  5.859375
[141]  3.125000  4.687500  7.812500 12.890625  6.189907  7.812500  5.859375  4.687500  3.906250  7.812500
[151] 15.234375  5.450720  8.203125  3.515625 10.937500  7.421875  3.521824  6.538463  7.031250 11.718750
[161] 92.307690  9.765625  7.031250  7.031250  9.765625  8.593750  8.076924 16.449654 10.156250  8.203125
[171]  5.060095 11.328125 15.625000 15.625000 12.890625  9.735579 14.615381 11.718750  6.640625 10.546875
[181]  5.078125  9.765625 13.076925  5.468750  8.846151  6.659227  8.984375 10.114182  5.042064  5.078125
[191]  7.031250  4.290867  3.906250  4.675484 76.953125 25.390625  5.859375  6.250000  6.250000  6.250000
>
```

3-

```
> amostraCPU3 <- sample(Teste23$CPU.Total, 200)
> amostraCPU3
  [1]  81.538460   7.031250   5.078125   9.765625  13.671875   5.468750  91.015625   5.769229  85.546
 [10]   9.765625  91.406250   6.640625  11.183893  16.796875   9.765625   8.593750   5.859375  12.457
 [19]   6.538463   4.296875  10.156250   3.131199   1.562500  13.281250   5.468750   3.125000   9.009
 [28]   8.593750   6.983173   7.812500  48.828125  74.230770  23.461538   6.250000   3.131199   7.049
 [37]   5.859375  13.671875   8.984375  13.461536   5.859375   5.859375  15.234375   7.031250  87.500
 [46]  45.703125   4.365075  13.461542   4.687500  13.461542  90.234375  10.546875  15.234375   5.468
 [55]  94.696970  19.140625   5.468750  10.156250   7.692307  10.156250  20.312500  28.906250  11.328
 [64]   9.765625   5.078125  10.584080   6.177884  89.062500  21.538460  13.281250   3.125000  17.578
 [73]   3.515625   3.906250  12.921625  11.718750   2.343750  95.384610  14.453125   8.984375   7.812
 [82]   7.692307   4.687500   4.687500   9.375000  86.718750   3.118992  12.109375   9.375000   8.204
 [91]  14.230764   6.653023   6.947112  13.076925   8.461541  13.076925   5.006009   7.794470  89.843
[100]   6.640625   9.765625   9.999996   9.375000   2.356148  12.500000   8.234125   3.894234  78.846
[109]   4.687500   6.610579   7.692313   5.468750   6.274801  19.921875   7.031250  12.109375   7.812
[118]  12.349760   3.515625  13.671875   9.802830   7.031250   5.499750  11.328125  25.390625   5.078
[127]  16.015625   8.984375   4.687500   8.203125  12.692303   8.593750   2.337742   8.984375  10.546
[136]  89.843750  89.843750   5.060095   5.468750   8.203125  13.671875   8.203125   7.031250   6.640
[145]   5.859375  13.281250   6.640625   4.687500  13.461536   7.049852  15.234375   5.859375  12.890
[154]   9.765625   6.250000   3.906250   8.593750   8.984375   3.918648  14.453125  10.156250  49.230
[163]  11.328125   6.640625   6.923079  13.671875   2.343750   5.468750   8.593750   3.461540  76.953
[172]  44.615383  10.907454   6.250000  12.890625   5.060095  10.546875   3.906250  10.937500   9.375
[181]  12.890625  10.937500   7.692307  10.156250   9.615385  10.546875   4.284859   5.078125   8.984
[190]   5.859375   8.203125   9.375000  14.453125  78.076920  12.307697  13.671875 100.000000   7.421
[199]   7.421875  21.484375
```

4-

```
> amostraCPU4 <- sample(Teste23$CPU.Total, 200)
> amostraCPU4
  [1]  4.230773  6.640625  5.468750 10.968500  6.274801  5.859375 12.109375 20.312500 14.189977  3.515625
 [11] 95.769230 15.558892 10.156250  9.765625 18.750000  5.859375  5.096727  6.640625 92.578125  7.049852
 [21] 90.769230 14.843750 94.696970  4.303074  6.659227 76.953125 16.406250 12.890625  7.031250 10.937500
 [31] 12.109375 14.062500  2.722359 11.328125 10.546875 13.281250  4.272837  6.250000 10.546875 14.508926
 [41]  4.687500  7.031250  5.078125 14.801682 12.109375 45.769226  5.859375  8.593750  6.640625  1.953125
 [51] 89.615380  4.230773  3.112984 16.406250 10.546875 11.328125 13.281250 89.453125  9.765625  8.076924
 [61] 10.156250  5.456734  4.296875  7.031250  6.538463  9.809029  3.906250  8.593750 78.846150 10.156250
 [71]  7.068455  7.421875  7.421875  7.812500  7.031250  7.031250  5.468750 48.437500 11.328125  7.421875
 [81] 10.156250  5.859375  8.438230 13.671875  2.343750 10.384619  5.487352  7.434273 42.578125 14.062500
 [91] 90.234375 14.453125  5.462742  7.031250 27.343750 17.968750  3.906250 11.328125  7.812500 11.538458
[101]  6.653023  5.468750 13.461536 91.406250  9.375000  3.106976  4.296875  5.865574  9.375000  6.923079
[111]  8.203125  7.031250  7.031250 91.153850  3.906250  6.526804  7.031250  5.078125 18.750000  3.515625
[121]  9.765625  6.153846  4.296875  7.812500  4.687500  3.906250 10.000002 11.328125  9.375000  8.593750
[131]  3.515625  5.859375  9.765625 11.538458 25.000000 16.796875  5.078125 11.153841  7.812500  6.640625
[141] 14.615381  6.640625  6.604570  4.687500  7.692307  3.846157  6.616587  6.250000 25.000000 14.230764
[151]  4.687500  7.031250 12.109375 11.923075 15.234375  3.515625  7.812500 31.250000  5.109125  4.687500
[161]  9.230768 92.187500 12.014675 10.937500  4.219115 46.093750 17.968750  4.687500 17.379808 12.890625
[171]  8.059443 17.307686  8.846151  5.493546 10.384619 16.153849  6.250000 10.937500  9.375000 15.234375
[181]  3.515625  7.031250 89.062500  3.515625 12.307692 37.842550  7.421875 12.692308  6.250000  6.640625
[191]  7.812500  8.960337  4.296875 13.076925  9.765625  8.203125  6.923079  8.593750  3.846157  8.203125
```

RAM:

1-

```
> amostraRam <- sample(Teste23$Ram, 200)
> amostraRam
  [1] 64.28256 65.22461 64.88518 64.20746 65.69151 64.96563 63.86141 65.28665 64.44881 64.19612 64.23151
 [12] 64.30750 64.16574 64.39683 64.44238 64.36203 64.59042 64.28697 64.13428 64.18777 66.81433 66.87859
 [23] 63.89847 64.50340 64.74818 64.10242 64.34097 67.34146 65.29239 64.72108 63.81085 64.32050 67.67136
 [34] 64.00548 64.14037 66.77089 66.79185 64.39025 63.34169 64.26131 65.34834 64.51944 64.11533 64.25056
 [45] 64.57300 63.35004 64.16186 65.38968 63.82336 64.50290 66.95000 64.14512 64.56814 66.32436 64.21674
 [56] 63.34086 64.37547 64.68948 63.83529 65.00274 63.77271 66.33850 64.80212 65.55937 63.87284 63.83677
 [67] 64.00851 66.41414 65.97443 64.17300 65.11426 65.07254 65.83238 64.25119 64.37704 64.19764 64.24069
 [78] 63.83593 65.55736 66.90538 64.94551 63.87230 64.84046 64.19803 64.42751 65.21719 64.27117 64.23058
 [89] 65.39071 65.81638 64.13585 64.27893 65.69769 64.87747 63.86931 66.27699 64.32914 65.50227 65.21445
[100] 64.51762 64.10909 63.98289 64.05328 63.77335 64.18522 66.32568 65.69209 64.48121 64.90707 65.04588
[111] 65.04407 66.30248 63.99855 64.90402 64.79736 64.19268 63.81522 63.39514 64.28821 65.03995 65.68713
[122] 64.45342 66.25545 64.30804 66.15605 64.66179 66.47481 64.96637 65.13223 66.37756 65.30933 64.31373
[133] 65.64340 63.91132 64.17938 64.77238 64.19588 65.65102 64.58949 64.58566 65.32155 64.42584 67.41975
[144] 64.14497 64.95645 64.89961 66.16022 64.89961 63.45744 66.89331 65.72469 65.71545 64.01426 63.80648
[155] 63.76348 65.08594 64.42722 64.71529 64.20702 64.72413 64.20398 64.17570 65.52850 65.10802 63.34954
[166] 66.27955 65.22200 66.35101 66.20518 63.42371 64.23593 64.28571 65.87842 65.45232 65.93816 64.33287
[177] 66.26467 67.21021 64.59749 63.92468 64.23735 63.47717 67.08803 64.43085 65.69936 65.65204 63.81865
[188] 65.24895 64.17025 63.90882 64.44385 66.12041 64.65860 65.16727 63.74203 64.76276 64.43649 64.21992
[199] 64.95287 65.47333
```

2-

```
> amostraRam2 <- sample(Teste23$Ram, 200)
> amostraRam2
  [1] 64.56631 66.16086 65.37717 64.90825 63.86141 64.11935 66.78021 65.07254 64.58733 64.87433 64.1862
 [12] 65.26637 63.82518 65.97173 63.33791 63.75602 65.36867 64.31157 66.25162 64.26921 66.77462 65.3193
 [23] 66.42233 64.22008 65.85874 65.31953 66.94067 64.59660 66.34679 63.32809 65.04485 63.73722 64.1833
 [34] 64.20746 65.00343 64.23952 64.59911 63.32908 66.38557 65.65886 68.34206 64.51944 64.43016 66.8785
 [45] 64.89004 65.40568 64.53226 64.25723 64.41479 66.95000 64.15297 64.39565 65.08844 64.51503 63.4196
 [56] 64.43050 64.18365 64.63588 67.10438 64.99960 64.48038 64.14993 64.22734 64.90462 66.76662 65.7072
 [67] 66.90976 64.28987 64.34495 66.58535 68.61537 66.53396 64.18606 64.58542 65.37510 65.14877 64.1158
 [78] 66.11433 68.67245 65.71133 64.66297 64.20367 64.58267 66.08305 65.24385 64.63048 64.12033 64.2315
 [89] 64.32914 66.79489 64.76021 64.66679 64.71721 64.32055 64.41975 65.37190 64.26607 66.76505 63.8144
[100] 66.48080 66.28632 64.33699 64.68752 66.45714 64.12985 66.15276 63.33683 66.93990 64.59916 65.6853
[111] 66.43338 66.67297 63.77271 65.27286 65.73656 65.29788 65.01781 64.43880 64.99783 63.86204 66.7312
[122] 64.31628 63.93278 66.07040 65.95097 64.81131 63.78415 64.40719 63.26296 63.27380 64.63632 63.7438
[133] 65.42615 64.17938 65.00244 65.06336 64.53240 64.09476 64.43816 66.16748 65.72440 65.87238 66.1911
[144] 64.18507 67.41975 64.13683 63.78277 64.14217 65.58813 68.10528 65.80666 66.23749 64.11464 63.5004
[155] 65.05899 64.15916 63.34911 64.51076 64.20398 64.53609 65.06012 65.80225 64.46825 64.99420 63.9822
[166] 65.29602 64.87025 66.03559 61.35938 65.10759 63.86219 64.96739 64.25845 66.27577 66.15826 64.1850
[177] 64.00851 65.49992 66.12552 64.35182 60.93410 66.24976 64.97266 64.18164 64.34362 68.40396 66.0234
[188] 64.44493 64.65933 64.17584 65.96594 61.13654 63.77644 64.22160 64.16210 64.35584 65.39085 64.8742
[199] 67.09814 63.78596
>
```

3-

```
> amostraRam3 <- sample(Teste23$Ram, 200)
> amostraRam3
  [1] 64.91595 63.90632 64.11641 66.04747 64.92072 64.58110 66.14491 65.29352 65.01172 64.53117 64.48121
 [12] 66.38189 66.23468 65.30550 66.85213 63.33261 66.05483 64.60294 64.79864 64.13717 66.46048 63.89847
 [23] 65.81750 66.44359 64.20398 64.66042 64.99596 63.32908 63.42371 65.86758 68.04181 66.29619 64.12985
 [34] 64.18915 66.26467 64.07925 64.27289 65.68031 64.10242 64.55999 66.14623 64.36551 64.64594 63.34169
 [45] 65.31271 63.39809 64.20893 64.24109 64.16613 64.43153 64.22066 64.69826 66.88040 65.17223 64.91228
 [56] 65.71497 63.27380 65.28665 64.34254 66.00128 64.92401 64.72511 63.75602 65.37510 64.54654 64.26906
 [67] 64.93475 66.10716 64.08602 64.94884 65.31393 63.77040 64.23151 64.14944 63.43034 63.98584 63.75754
 [78] 65.38124 64.25350 66.14687 65.06493 64.98757 64.22278 65.63751 64.08504 64.80212 65.52138 63.46273
 [89] 64.37886 65.30785 64.30263 65.17307 64.19460 65.03268 65.42683 64.32708 64.24760 64.87075 64.31849
[100] 63.33742 67.60156 64.21271 64.31628 64.24196 64.36571 64.54521 64.99449 67.41533 64.46461 65.79247
[111] 65.13168 63.87014 64.09618 64.30048 65.39032 66.14918 64.35457 63.34468 64.15936 66.94067 66.52890
[122] 64.13452 66.69308 65.80548 64.20367 66.24976 65.65102 64.18507 64.30847 63.99987 65.31468 65.46669
[133] 66.29825 65.55264 65.69269 65.38266 64.68384 63.29520 66.13351 64.89004 64.72413 64.37209 65.65410
[144] 66.08537 64.87747 63.35052 64.36110 66.11433 64.49010 64.17172 65.68488 65.67256 64.89961 66.94986
[155] 63.91937 64.37111 65.96138 63.74385 64.44493 64.92935 66.94303 64.24717 64.29660 64.12455 64.90270
[166] 64.93048 64.13240 64.39365 64.77396 63.35991 64.43934 64.31912 65.61763 65.43195 65.14877 66.93509
[177] 64.00548 65.96138 65.38560 65.25165 65.38335 68.19623 64.47443 64.15018 65.56271 65.97443 64.51782
[188] 64.59916 65.31600 63.79770 63.26296 64.75456 64.23421 64.02275 65.01285 64.26921 65.64536 64.37013
[199] 65.48181 65.22210
```

4-

```
> amostraRam4 <- sample(Teste23$Ram, 200)
> amostraRam4
  [1] 64.39668 64.12985 65.38560 65.00986 65.52328 64.67245 64.99960 64.50340 63.85925 64.45888 66.01272
 [12] 64.24501 64.11311 68.19623 66.95442 64.97820 65.00607 64.66042 68.39218 66.23749 65.34834 65.92451
 [23] 63.98289 64.32497 64.15327 64.19096 64.37547 63.77747 65.51210 64.69713 65.23815 65.77687 66.74144
 [34] 65.69151 66.76662 66.80309 64.31093 64.63234 65.69219 64.39040 64.24717 65.80666 64.52274 65.83517
 [45] 64.30013 65.04407 63.81085 64.42279 65.31393 64.12872 68.74191 66.06352 66.00128 66.49705 64.64677
 [56] 65.55937 64.43050 64.44331 64.22160 64.03212 63.77644 66.08655 66.79489 65.97566 64.27117 64.30048
 [67] 66.44359 66.88040 63.45297 65.78933 64.21791 65.02360 64.29203 66.22055 65.61763 65.66205 64.37950
 [78] 64.28442 63.81448 63.83451 64.32983 64.79314 63.79362 66.25162 63.76623 67.65242 64.33699 63.42062
 [89] 65.07254 64.34254 64.07822 64.99582 65.73312 66.48743 64.46520 64.13510 65.65204 65.40230 64.83124
[100] 65.07097 63.41036 64.79736 64.93594 63.34130 64.45598 66.44707 64.90707 65.97345 66.22629 66.76898
[111] 64.83212 64.14037 65.90660 64.49608 64.29424 65.35591 64.59494 65.84525 65.81103 66.26355 64.51768
[122] 64.99434 65.85874 64.18777 64.68752 65.23639 64.15607 64.36571 64.42584 66.86572 65.77480 64.61172
[133] 64.38662 64.43880 64.62729 64.27682 66.02705 64.52048 66.86607 66.03559 66.13838 65.19226 64.23917
[144] 65.30785 64.68000 66.11000 63.80840 64.20461 64.59911 64.15018 65.94263 64.74426 64.63377 64.11586
[155] 64.15415 66.19115 64.18507 66.29903 65.00505 63.90632 64.88675 64.22008 65.14410 64.11617 63.81522
[166] 64.29336 64.42722 65.16050 65.68713 64.42432 63.45744 64.28580 63.40212 65.22210 64.44415 66.90695
[177] 65.84411 64.74062 64.86942 66.40260 64.08588 64.77396 65.14945 64.82991 65.63029 64.76021 64.92268
[188] 66.11011 64.74435 64.91179 66.64749 65.17169 66.90863 64.86255 63.70669 64.39565 65.38266 65.24385
[199] 65.07927 66.69540
```

Memória Usada:

1-

```
> amostraUsada <- sample(Teste23$Memoria.Usada, 200)
> amostraUsada
  [1] 5.113102 4.985344 4.934666 5.142826 5.045609 5.102810 5.116203 4.989700 5.002426 5.018185 5.145836
 [12] 4.981438 4.979645 5.009907 4.983891 4.928696 5.114964 5.076504 5.086758 5.043137 5.149536 5.020332
 [23] 4.973408 4.735023 5.061619 5.136753 5.272785 5.061749 5.079174 4.982250 5.153870 4.920258 5.042725
 [34] 5.096558 4.928772 5.157417 5.032246 4.960072 5.327175 5.253696 5.130447 5.006947 5.015175 4.996666
 [45] 5.116421 5.183201 5.023216 4.995541 4.963642 4.922260 5.140491 5.027496 5.162052 5.026276 4.988045
 [56] 5.215057 5.045044 5.064514 4.988922 4.959099 5.160942 4.998402 5.067722 5.052666 5.141102 4.988884
 [67] 5.104778 5.043747 5.060646 5.181244 5.044559 5.012291 4.999218 5.033947 4.963875 5.114960 5.030373
 [78] 5.134167 5.057030 5.161228 4.996555 5.070862 4.958462 4.967945 5.096439 4.954922 4.935719 4.991985
 [89] 4.922638 4.974461 5.073666 5.030155 5.018482 5.179550 5.046112 4.928913 5.028526 5.126228 5.051987
[100] 5.006271 4.990837 5.026070 5.199444 4.988640 4.975616 5.210327 5.026398 5.138115 4.983582 5.017803
[111] 5.006306 5.027382 5.196537 4.972416 5.059875 5.316055 5.043713 5.041470 5.007378 5.102348 5.142246
[122] 5.011196 5.014980 5.053783 5.062248 4.983479 5.136852 5.129688 5.145176 5.163704 4.960510 4.986481
[133] 5.047279 5.159115 4.999763 4.933166 5.212364 5.239567 5.006840 5.119564 4.991352 5.252560 5.201607
[144] 5.136410 4.934978 4.992126 5.199589 5.015163 5.029839 5.021824 5.049862 5.008678 5.007942 5.078785
[155] 5.130013 5.223896 5.042267 4.963089 4.992630 5.042397 5.163074 4.990036 5.002846 4.990967 5.231068
[166] 4.972103 4.986183 4.989075 5.062878 5.047539 5.139648 4.978039 4.982788 4.991711 5.064899 5.149010
[177] 5.163471 5.156181 5.001781 5.024387 5.029537 4.993042 5.071632 5.157448 5.089703 4.980186 5.005444
[188] 5.150856 5.201908 4.985413 5.001797 5.024120 5.147446 5.183094 5.007030 4.917362 5.136459 5.002064
[199] 5.134701 5.170334
```

2-

```
> amostraUsada2 <- sample(Teste23$Memoria.Usada, 200)
> amostraUsada2
  [1] 5.112343 5.137970 5.020359 4.994015 4.979729 5.152222 5.079533 4.972416 5.142796 4.987244 5.080418
 [12] 5.019444 4.986904 5.147385 4.998711 5.138023 5.036137 5.165142 5.141907 4.967945 4.959705 5.009460
 [23] 5.190899 5.003632 5.021339 5.056099 5.056625 5.127167 5.051086 5.056103 5.086399 4.990395 5.045994
 [34] 4.985344 5.078575 5.000942 5.158573 5.000584 4.956505 5.003101 5.028576 4.961113 5.015461 5.102020
 [45] 4.990559 4.977978 5.127243 4.972424 5.020775 5.092899 5.153870 4.982277 4.963989 5.028168 5.272785
 [56] 5.061512 5.162041 5.047852 4.994228 5.087841 5.035088 5.042892 4.956528 5.019459 5.109760 4.954838
 [67] 5.007591 5.181290 5.147686 5.039993 4.983803 5.226738 4.988338 4.994873 5.131332 5.015079 5.021507
 [78] 5.095245 5.055256 4.916519 5.105255 4.993042 4.966839 5.008011 5.073791 5.136578 5.001354 5.014107
 [89] 5.042713 5.056187 5.145741 5.007118 4.988129 5.104721 5.007336 5.043747 5.114330 4.977940 5.057030
[100] 5.154541 5.026646 5.197651 5.005985 4.994560 5.019814 4.986954 4.993088 5.006271 5.019314 5.114544
[111] 4.990902 5.061665 5.007374 5.114422 4.922260 4.993809 5.054054 5.002220 5.102810 5.028927 5.071636
[122] 5.056374 5.001625 5.033077 4.995350 5.090366 4.922607 4.956425 5.058681 5.162407 5.072456 5.112663
[133] 5.050426 5.007378 5.008263 5.164448 5.052280 5.260204 5.085606 5.034225 5.001701 5.196537 4.983398
[144] 5.000103 5.108303 4.988773 5.042381 5.078617 5.016171 5.040833 5.206535 5.093872 5.122078 4.953751
[155] 5.132515 4.988258 4.992504 5.009686 5.008293 5.014015 5.000149 5.160942 5.048130 5.287910 5.103191
[166] 5.202274 4.922882 5.081848 5.081482 5.316055 5.010181 5.096836 5.047909 5.129330 4.923248 5.146816
[177] 5.155136 4.961048 5.005650 5.212364 5.153023 5.140491 5.025124 4.960182 5.004948 4.993298 5.080940
[188] 5.116112 4.993790 5.150757 4.989086 5.081261 5.211884 4.995312 5.036701 4.965908 5.010670 5.089703
[199] 4.990330 4.986710
```

3-

```
> amostraUsada3 <- sample(Teste23$Memoria.Usada, 200)
> amostraUsada3
  [1] 5.136410 5.142448 5.123363 5.048130 4.996555 5.017529 5.023087 5.139023 5.092899 4.991352 5.131924
 [12] 5.102348 5.042030 5.132835 5.041592 4.870880 5.006271 5.096493 5.026497 4.985451 5.137970 5.021339
 [23] 5.002193 4.994293 5.049084 4.993275 5.137032 5.139633 5.001797 5.038467 5.104877 5.033962 5.158566
 [34] 4.993710 5.041115 5.080666 5.003941 4.932045 5.014015 5.068970 5.095879 5.014248 5.138313 5.013744
 [45] 5.064167 5.002884 5.209847 5.085281 5.102371 5.051201 5.165142 4.989040 5.084583 5.055000 5.042713
 [56] 5.006664 4.960949 5.186852 5.054523 5.012291 5.190941 5.016037 5.005650 5.206085 5.017811 5.075329
 [67] 4.957069 4.959721 4.960213 5.011196 5.045994 4.990643 5.006306 5.200897 4.990837 5.080418 5.094223
 [78] 4.985779 4.987465 5.130009 5.027649 4.990044 4.991112 5.095928 5.018406 5.040863 5.024982 5.056187
 [89] 5.142811 5.132515 4.996414 5.214573 5.166130 5.164677 5.097744 5.063988 5.060074 4.981163 5.028072
[100] 5.002411 5.010822 5.201900 5.094463 4.917316 5.071072 5.114960 5.046745 5.146370 5.066021 5.023849
[111] 4.984234 4.988651 5.056995 4.983757 5.019295 5.011963 5.111370 5.007000 5.076416 4.979927 5.134701
[122] 5.110134 5.121971 5.105309 4.992599 4.974907 4.991890 5.104385 5.073265 4.995758 5.154957 4.999989
[133] 4.947632 5.153507 5.166229 5.004208 4.982647 5.056644 5.009953 5.024063 5.201607 5.244961 5.199497
[144] 5.085083 5.122009 5.086220 4.988518 4.959286 4.987984 4.983562 5.018562 5.004128 5.071632 4.967533
[155] 5.114368 5.025322 5.149712 5.104774 4.958076 5.060978 5.105255 5.005779 5.140823 5.167110 5.080940
[166] 5.018913 5.007950 5.116421 5.299912 4.986954 5.074402 5.147385 4.994751 4.988441 4.931633 4.957001
[177] 4.960072 5.016701 4.983265 4.977142 5.025040 4.972424 5.018452 4.966518 4.983479 5.066456 5.007030
[188] 5.113102 5.056103 5.147686 4.987198 5.041992 5.015163 5.027977 5.056099 4.987343 5.045456 5.076073
[199] 5.019814 5.036964
```

4-

```
> amostraUsada4 <- sample(Teste23$Memoria.Usada, 200)
> amostraUsada4
  [1] 5.056179 5.074520 5.010189 5.044933 5.092587 4.923923 5.062878 5.203381 5.027229 4.998756 5.001453
 [12] 5.111729 5.027496 5.122078 5.030373 5.104774 4.992844 5.060646 5.006947 4.986397 5.114960 4.984661
 [23] 5.119022 4.990967 4.995350 5.020233 5.019615 5.011703 4.994560 4.977978 4.995407 4.926785 5.257648
 [34] 5.021717 4.998550 5.010670 5.283241 5.083065 5.107861 4.989956 5.000504 4.989922 5.041592 5.008762
 [45] 5.085281 5.069332 4.931286 5.000820 5.006336 5.199715 5.030151 5.050636 5.021770 5.196510 4.986168
 [56] 5.141766 4.986481 4.994228 5.006905 4.985928 5.065941 4.991791 4.930550 4.982708 4.930096 4.985413
 [67] 5.131924 5.151535 4.988518 5.010746 4.962624 4.982788 4.947632 4.992962 4.988194 4.995758 5.004314
 [78] 4.987068 5.111889 5.002499 5.146370 5.165016 5.064091 5.071884 5.147469 4.998360 5.082664 5.000942
 [89] 5.089775 4.992523 5.011581 4.990131 5.158573 5.051075 5.214573 5.007591 5.023849 4.985741 5.006687
[100] 5.125420 5.287910 4.980312 5.244961 4.993710 5.084633 5.141907 4.988922 4.994751 4.994617 4.929012
[111] 5.010853 4.979549 5.080826 5.202335 4.981052 4.983887 5.140942 4.982803 5.014423 5.141682 4.986954
[122] 5.044983 5.133537 4.999592 5.046535 5.020775 5.052425 5.075439 5.136600 5.096493 5.018562 5.044384
[133] 4.951099 4.985264 4.957069 4.957890 5.027649 4.982445 4.984234 5.079174 4.988182 4.922573 5.056438
[144] 5.051727 5.011234 4.999336 4.997963 5.120655 4.976295 5.044212 5.122032 5.153870 5.002174 4.956505
[155] 5.149673 4.990643 4.965519 5.053783 5.159241 5.162132 5.099495 4.955631 4.989109 4.985065 5.041935
[166] 5.158756 4.960514 5.085083 5.150929 4.983387 5.130009 4.920567 5.232815 4.956257 4.965816 5.152248
[177] 5.103165 4.996086 4.995476 4.933491 4.989964 5.123394 4.984299 5.047852 5.239567 5.102932 5.000271
[188] 4.987301 4.987732 5.105194 4.986183 5.094658 5.071167 5.051201 5.147686 4.988338 5.239223 5.090656
[199] 4.986237 5.009098
```

Disco:

1-

```
> amostraDisco <- sample(Teste23$Disco, 200)
> amostraDisco
  [1] 51.21114 51.22185 51.22231 51.21114 51.22471 51.21153 51.21114 51.22276 51.21114 51.22180 51.22471
 [12] 51.21222 51.22429 51.22139 51.21241 51.22452 51.22453 51.21216 51.22433 51.21818 51.22230 51.21215
 [23] 51.21241 51.21114 51.21107 51.22180 51.21211 51.21818 51.22362 51.21114 51.22155 51.22294 51.21159
 [34] 51.21214 51.21153 51.22200 51.22457 51.22185 51.22289 51.22452 51.21217 51.21214 51.21159 51.22289
 [45] 51.22200 51.22453 51.22457 51.21156 51.22200 51.21156 51.21217 51.22471 51.22438 51.22447 51.21211
 [56] 51.22185 51.21114 51.22451 51.21211 51.22457 51.22451 51.22438 51.21153 51.21114 51.21114 51.21156
 [67] 51.22449 51.22457 51.22433 51.22430 51.22446 51.21217 51.21198 51.21211 51.22451 51.21211 51.21113
 [78] 51.22433 51.22278 51.22433 51.21217 51.22457 51.22453 51.21228 51.22278 51.21107 51.22433 51.22427
 [89] 51.22155 51.22155 51.21215 51.21211 51.22453 51.22139 51.21997 51.21214 51.21114 51.21211 51.21113
[100] 51.22430 51.22341 51.21211 51.21217 51.21261 51.22427 51.22214 51.21217 51.22453 51.22276 51.21203
[111] 51.21107 51.22429 51.22457 51.22457 51.21228 51.21222 51.21261 51.21114 51.22429 51.21217 51.21153
[122] 51.21211 51.21114 51.21113 51.22449 51.21261 51.22471 51.22447 51.22449 51.21214 51.21156 51.22231
[133] 51.22453 51.22214 51.21198 51.22451 51.22230 51.21217 51.21114 51.21211 51.21153 51.21228 51.22438
[144] 51.21113 51.21215 51.22438 51.22438 51.21214 51.22453 51.21107 51.22452 51.22447 51.22438 51.22230
[155] 51.21156 51.21156 51.22231 51.22139 51.22294 51.21114 51.22427 51.21217 51.22471 51.21997 51.22294
[166] 51.21216 51.22276 51.21214 51.21217 51.21818 51.21214 51.21217 51.21217 51.22431 51.21159 51.22139
[177] 51.22289 51.22433 51.21241 51.21114 51.22341 51.22447 51.21217 51.22427 51.21114 51.22230 51.21107
[188] 51.21114 51.22471 51.21159 51.21153 51.22430 51.21215 51.22433 51.22180 51.21214 51.21211 51.22471
[199] 51.22139 51.21217
```

2-

```
> amostraDisco2 <- sample(Teste23$Disco, 200)
> amostraDisco2
  [1] 51.22430 51.22231 51.21214 51.21217 51.22231 51.21998 51.21113 51.22139 51.22294 51.21228 51.22452
 [12] 51.22457 51.21217 51.21113 51.21241 51.22180 51.22453 51.22433 51.22214 51.21211 51.22180 51.21114
 [23] 51.22471 51.22451 51.22294 51.21228 51.21241 51.22180 51.21113 51.22214 51.21217 51.22447 51.22449
 [34] 51.21214 51.21159 51.22438 51.21114 51.21211 51.22447 51.21997 51.21211 51.22214 51.22155 51.22429
 [45] 51.21214 51.21159 51.22186 51.22430 51.22278 51.21228 51.21214 51.21217 51.21156 51.22446 51.21214
 [56] 51.21998 51.22341 51.21217 51.22139 51.22231 51.22289 51.22447 51.22230 51.21214 51.22446 51.22433
 [67] 51.21998 51.21222 51.21818 51.22453 51.22457 51.21156 51.22185 51.22214 51.21198 51.22427 51.22471
 [78] 51.21228 51.22276 51.21222 51.21211 51.22186 51.22186 51.21114 51.22294 51.21159 51.21114 51.21217
 [89] 51.22447 51.21228 51.22214 51.21241 51.22449 51.21818 51.22341 51.22155 51.22457 51.22180 51.21228
[100] 51.21214 51.21156 51.21217 51.21156 51.22294 51.22471 51.21818 51.21214 51.22433 51.22471 51.22362
[111] 51.21211 51.22449 51.22180 51.21228 51.21818 51.22433 51.22294 51.21214 51.21818 51.22471 51.22447
[122] 51.22294 51.21217 51.22200 51.22431 51.22155 51.22231 51.22452 51.21114 51.22139 51.22180 51.22427
[133] 51.21217 51.22289 51.21114 51.21215 51.21214 51.22185 51.22471 51.22431 51.22155 51.22446 51.22453
[144] 51.22471 51.22430 51.22427 51.22289 51.21228 51.22139 51.21216 51.21107 51.22186 51.22452 51.21997
[155] 51.22457 51.21114 51.21198 51.21198 51.22230 51.21228 51.21107 51.21215 51.21241 51.22471 51.22276
[166] 51.22200 51.22429 51.21198 51.22180 51.21215 51.21818 51.21241 51.21156 51.21211 51.22276 51.22433
[177] 51.21818 51.22278 51.22230 51.21203 51.22214 51.22433 51.22186 51.22429 51.22430 51.22429 51.22200
[188] 51.22471 51.22471 51.21114 51.21211 51.22231 51.22294 51.21217 51.22438 51.22289 51.21217 51.21156
[199] 51.21114 51.21153
```

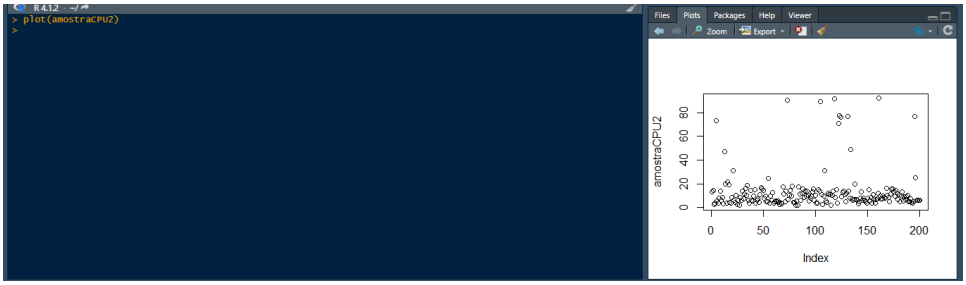
3-

```
> amostraDisco3 <- sample(Teste23$Disco, 200)
> amostraDisco3
  [1] 51.22438 51.21156 51.22180 51.22276 51.22139 51.21241 51.22431 51.22431 51.21214 51.21228 51.21107
 [12] 51.21107 51.22457 51.21217 51.21228 51.22433 51.22362 51.22451 51.21159 51.22186 51.21228 51.21241
 [23] 51.21998 51.21203 51.21241 51.22430 51.22447 51.21214 51.21211 51.21216 51.22433 51.21217 51.21214
 [34] 51.22430 51.22341 51.22451 51.22457 51.22430 51.22446 51.22431 51.21228 51.22185 51.21156 51.22438
 [45] 51.22200 51.22214 51.21215 51.21241 51.22457 51.22457 51.21997 51.21222 51.22294 51.21818 51.21228
 [56] 51.22433 51.22471 51.22438 51.21228 51.21114 51.22341 51.21998 51.22433 51.22341 51.22447 51.22230
 [67] 51.21114 51.22230 51.21114 51.21156 51.22214 51.22155 51.21241 51.21215 51.22438 51.21228 51.22452
 [78] 51.22429 51.21217 51.21241 51.22362 51.22230 51.21214 51.21818 51.21211 51.21153 51.21159 51.22341
 [89] 51.21211 51.22230 51.21217 51.22471 51.22438 51.22139 51.22433 51.21217 51.22289 51.22433 51.21114
[100] 51.22289 51.22431 51.22433 51.22155 51.21113 51.22452 51.21214 51.22230 51.21114 51.22155 51.21998
[111] 51.22451 51.22294 51.21216 51.22433 51.21217 51.21241 51.22429 51.22200 51.22231 51.22471 51.22457
[122] 51.21217 51.22457 51.21198 51.21216 51.21153 51.22278 51.22276 51.21228 51.21818 51.21217 51.22214
[133] 51.22471 51.22230 51.22433 51.21153 51.22230 51.21114 51.22278 51.21222 51.22231 51.21156 51.21241
[144] 51.22451 51.22230 51.21113 51.22214 51.22230 51.22186 51.22214 51.22276 51.21114 51.22289 51.22278
[155] 51.22276 51.21228 51.21211 51.21114 51.22446 51.22294 51.21228 51.22452 51.21156 51.22427 51.21211
[166] 51.21217 51.21217 51.21241 51.22447 51.22231 51.21228 51.22230 51.22430 51.21997 51.21998 51.21198
[177] 51.22449 51.22139 51.22427 51.22214 51.21159 51.22433 51.21114 51.22294 51.22341 51.21203 51.21114
[188] 51.21203 51.21211 51.22230 51.22451 51.21214 51.21153 51.21215 51.22278 51.21228 51.22185 51.22430
[199] 51.21241 51.22155
```

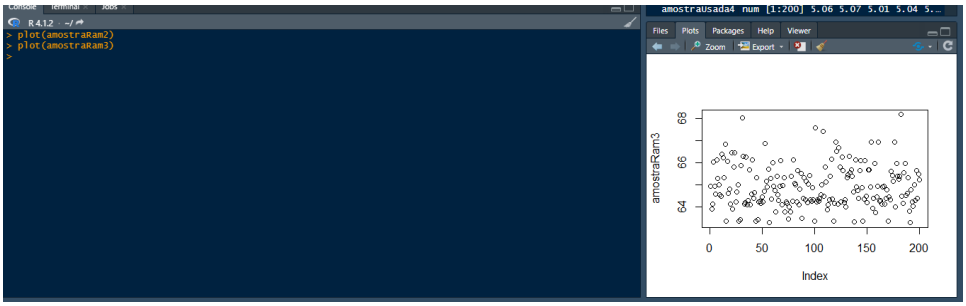
4-

```
> amostraDisco4 <- sample(Teste23$Disco, 200)
> amostraDisco4
  [1] 51.21228 51.21198 51.22453 51.22452 51.22430 51.21818 51.22231 51.22294 51.21159 51.21217 51.21159
 [12] 51.22186 51.22433 51.22214 51.22294 51.21114 51.21156 51.21222 51.22453 51.21107 51.22453 51.21114
 [23] 51.22231 51.21114 51.21107 51.22278 51.22230 51.21159 51.22289 51.21241 51.21114 51.21214 51.21217
 [34] 51.21217 51.22427 51.21216 51.21214 51.22447 51.21156 51.22429 51.22449 51.21215 51.22433 51.21198
 [45] 51.21114 51.22457 51.21114 51.21211 51.21153 51.21217 51.21198 51.22294 51.22431 51.21241 51.21241
 [56] 51.21153 51.22230 51.21997 51.21114 51.21114 51.21114 51.21114 51.21241 51.21114 51.22278 51.21198
 [67] 51.21997 51.21203 51.21241 51.22230 51.22453 51.21159 51.22214 51.21217 51.22471 51.22433 51.22185
 [78] 51.21203 51.22289 51.22214 51.22289 51.21153 51.22429 51.21203 51.22214 51.21114 51.21998 51.21114
 [89] 51.21216 51.21217 51.21997 51.21217 51.21114 51.22431 51.21114 51.22433 51.22457 51.21114 51.21156
[100] 51.21997 51.22214 51.22430 51.21228 51.21997 51.22214 51.22200 51.21214 51.22433 51.21228 51.21217
[111] 51.22155 51.22447 51.22214 51.21159 51.21214 51.22457 51.21156 51.22430 51.22139 51.22289 51.21156
[122] 51.21217 51.22180 51.21113 51.21818 51.22431 51.22200 51.21113 51.21156 51.22180 51.22139 51.22452
[133] 51.21107 51.21261 51.22449 51.22278 51.22278 51.21217 51.21998 51.21261 51.22155 51.22200 51.21261
[144] 51.21214 51.22180 51.22431 51.22362 51.21114 51.22200 51.22186 51.21156 51.22186 51.22155 51.21113
[155] 51.22446 51.22278 51.22294 51.21159 51.22139 51.21261 51.22180 51.22446 51.22452 51.21198 51.22471
[166] 51.21216 51.22276 51.22294 51.22429 51.22433 51.22185 51.22139 51.22471 51.21228 51.22438 51.21217
[177] 51.21228 51.21114 51.22230 51.21153 51.22427 51.21997 51.21159 51.21217 51.22278 51.22231 51.21156
[188] 51.22186 51.21222 51.21198 51.21998 51.22200 51.21214 51.22362 51.21228 51.21222 51.21214 51.21222
[199] 51.21217 51.21211
```

Vendo a variação de dados da cpu:



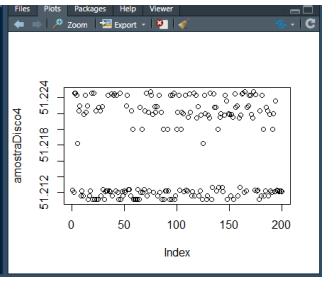
Variação de ram:



Variação de Memória Usada:

Variação de Disco:

```
> plot(amostraDisco)
> plot(amostraDisco2)
> plot(amostraDisco3)
> plot(amostraDisco4)
>
```



Pegando dados gerais do computador:

```
> dados <- data.frame(amostraCPU, amostraRam, amostraUsada, amostraDisco)
> dados
    amostraCPU amostraRam amostraUsada amostraDisco
1    13.281250   64.28256     5.113102     51.21114
2     8.076924   65.22461     4.985344     51.22185
3     7.849705   64.88518     4.934666     51.22231
4     8.593750   64.20746     5.142826     51.21114
5    10.000002   65.69151     5.045609     51.22471
6     7.031250   64.96563     5.102810     51.21153
7    12.890625   63.86141     5.116203     51.21114
8     7.031250   65.28665     4.989700     51.22276
9     9.765625   64.44881     5.002426     51.21114
10    6.250000   64.19612     5.018185     51.22180
11   10.156250   64.23151     5.145836     51.22471
12    3.125000   64.30750     4.981438     51.21222
13    8.984375   64.16574     4.979645     51.22429
14   10.156250   64.39683     5.009907     51.22139
15    5.859375   64.44238     4.983891     51.21241
16    1.562500   64.36203     4.928696     51.22452
17   16.923082   64.59042     5.114964     51.22453
18    5.468750   64.28697     5.076504     51.21216
19    3.906250   64.13428     5.086758     51.22433
20   18.076920   64.18777     5.043137     51.21818
21   14.843750   66.81433     5.149536     51.22230
22    4.687500   66.87859     5.020332     51.21215
23   13.281250   63.89847     4.973408     51.21241
24   10.546875   64.50340     4.735023     51.21114
25    7.812500   64.74818     5.061619     51.21107
26   21.093750   64.10242     5.136753     51.22180
27    7.812500   64.34097     5.272785     51.21211
28   10.769224   67.34146     5.061749     51.21818
29   33.203125   65.29239     5.079174     51.22362
30    4.687500   64.72108     4.982250     51.21114
31    6.250000   63.81085     5.153870     51.22155
32    5.859375   64.32050     4.920258     51.22294
33    6.640625   67.67136     5.042725     51.21159
34   10.937500   64.00548     5.096558     51.21214
```

3-Fazendo variações da cpu, ram, memória usada e disco:

CPU:

1-

```
> dadosCPU1 <- c(amostraCPU)
> variacaoCPU1 <- dadosCPU1 - mean(dadosCPU1)
> variacaoCPU1 <- variacaoCPU1 ^ 2
> variancaCPU1 <- mean(variacaoCPU1)
> var(dadosCPU1)
[1] 370.9798
> variancaCPU1
[1] 369.1249
> desvioCPU1 <- sqrt(variancaCPU1)
> sd(dadosCPU1)
[1] 19.26084
> desvioCPU1
[1] 19.21262
```

2-

```
> dadosCPU2 <- c(amostraCPU2)
> variacaoCPU2 <- dadosCPU2 - mean(dadosCPU2)
> variacaoCPU2 <- variacaoCPU2 ^ 2
> variancaCPU2 <- mean(variacaoCPU2)
> var(dadosCPU2)
[1] 292.6461
> variancaCPU2
[1] 291.1829
> desvioCPU2 <- sqrt(variancaCPU2)
> sd(dadosCPU2)
[1] 17.1069
> desvioCPU2
[1] 17.06408
```

3-

```
> dadosCPU3 <- c(amostraCPU3)
> variacaoCPU3 <- dadosCPU3 - mean(dadosCPU3)
> variacaoCPU3 <- variacaoCPU3 ^ 2
> variancaCPU3 <- mean(variacaoCPU3)
> var(dadosCPU3)
[1] 543.2497
> desvioCPU3 <- sqrt(variancaCPU3)
> sd(dadosCPU3)
[1] 23.30772
> desvioCPU3
[1] 23.24938
```

```
> dadosCPU4 <- c(amostraCPU4)
> variacaoCPU4 <- dadosCPU4 - mean(dadosCPU4)
> variacaoCPU4 <- variacaoCPU4 ^ 2
> variancaCPU4 <- mean(variacaoCPU4)
> var(dadosCPU4)
[1] 438.4416
> desvioCPU4 <- sqrt(variancaCPU4)
> sd(dadosCPU4)
[1] 20.939
> desvioCPU4
[1] 20.88658
```

Ram:

```
> dadosRam <- c(amostraRam)
> variacaoRam <- dadosRam - mean(dadosRam)
> variacaoRam <- variacaoRam ^ 2
> variancaRam <- mean(variacaoRam)
> var(dadosRam)
[1] 0.8811865
> variancaRam
[1] 0.8767806
> desvioRam <- sqrt(variancaRam)
> sd(dadosRam)
[1] 0.9387154
> desvioRam
[1] 0.9363656
```

```
> dadosRam2 <- c(amostraRam2)
> variacaoRam2 <- dadosRam2 - mean(dadosRam2)
> variacaoRam2 <- variacaoRam2 ^ 2
> variancaRam 2 <- mean(variacaoRam2)
Error: unexpected numeric constant in "variancaRam 2"
> variancaRam2 <- mean(variacaoRam2)
> var(dadosRam2)
[1] 1.448596
> variancaRam2
[1] 1.441353
> desvioRam <- sqrt(variancaRam2)
> sd(dadosRam2)
[1] 1.203576
> desvioRam2 <- sqrt(variancaRam2)
> desvioRam2
[1] 1.200564
```

```
> dadosRam3 <- c(amostraRam3)
> variacaoRam3 <- dadosRam3 - mean(dadosRam3)
> variacaoRam3 <- variacaoRam3 ^ 2
> variancaRam3 <- mean(variacaoRam3)
> var(dadosRam3)
[1] 0.9497735
> variancaRam3
[1] 0.9450246
> desvioRam3 <- sqrt(variancaRam3)
> sd(dadosRam3)
[1] 0.9745632
> desvioRam3
[1] 0.9721238
```

```
> dadosRam4 <- c(amostraRam4)
> variacaoRam4 <- dadosRam4 - mean(dadosRam4)
> variacaoRam4 <- variacaoRam4 ^ 2
> variancaRam4 <- mean(variacaoRam4)
> var(dadosRam4)
[1] 1.001872
> variancaRam4
[1] 0.9968628
> desvioRam4 <- sqrt(variancaRam4)
> sd(dadosRam4)
[1] 1.000936
> desvioRam4
[1] 0.9984302
```

Memória Usada:

```
> dadosUsada <- (amostraUsada)
> variacaoUsada <- dadosUsada - mean(dadosUsada)
> variacaoUsada <- variacaoUsada ^ 2
> variancaUsada <- mean(variacaoUsada)
> var(dadosUsada)
[1] 0.007741583
> variancaUsada
[1] 0.007702875
> desvioUsada <- sqrt(variancaUsada)
> sd(dadosUsada)
[1] 0.08798627
> desvioUsada
[1] 0.08776602
```

```
> dadosUsada2 <- (amostraUsada2)
> variacaoUsada2 <- dadosUsada2 - mean(dadosUsada2)
> variacaoUsada2 <- variacaoUsada2 ^ 2
> variancaUsada2 <- mean(variacaoUsada2)
> var(dadosUsada2)
[1] 0.005799527
> variancaUsada2
[1] 0.005770529
> desvioUsada2 <- sqrt(variancaUsada2)
> sd(dadosUsada2)
[1] 0.07615462
> desvioUsada2
[1] 0.075964
```

```
> dadosUsada3 <- (amostraUsada3)
> variacaoUsada3 <- dadosUsada3 - mean(dadosUsada3)
> variacaoUsada3 <- variacaoUsada3 ^ 2
> variancaUsada3 <- mean(variacaoUsada3)
> var(dadosUsada3)
[1] 0.005084797
> variancaUsada3
[1] 0.005059373
> desvioUsada3 <- sqrt(variancaUsada3)
> sd(dadosUsada3)
[1] 0.07130776
> desvioUsada3
[1] 0.07112927
```

```
> dadosUsada4 <- (amostraUsada4)
> variacaoUsada4 <- dadosUsada4 - mean(dadosUsada4)
> variacaoUsada4 <- variacaoUsada4 ^ 2
> variancaUsada4 <- mean(variacaoUsada4)
> var(dadosUsada4)
[1] 0.006008259
> variancaUsada4
[1] 0.005978217
> desvioUsada4 <- sqrt(variancaUsada4)
> sd(dadosUsada4)
[1] 0.07751296
> desvioUsada4
[1] 0.07731893
```

Disco:

```
> dadosDisco <- (amostraDisco)
> variacaoDisco <- dadosDisco - mean(dadosDisco)
> variacaoDisco <- variacaoDisco ^ 2
> variancaDisco <- mean(variacaoDisco)
> var(dadosDisco)
[1] 3.487251e-05
> variancaDisco
[1] 3.469815e-05
> desvioDisco <- sqrt(variancaDisco)
> sd(dadosDisco)
[1] 0.005905295
> desvioDisco
[1] 0.005890514
```

```
> dadosDisco2 <- c(amostraDisco2)
> variacaoDisco2 <- dadosDisco2 - mean(dadosDisco2)
> variacaoDisco2 <- variacaoDisco2 ^ 2
> variancaDisco2 <- mean(variacaoDisco2)
> var(dadosDisco2)
[1] 3.060781e-05
> variancaDisco2
[1] 3.045478e-05
> desvioDisco2 <- sqrt(variancaDisco2)
> sd(dadosDisco2)
[1] 0.005532433
> desvioDisco2
[1] 0.005518585
```

```
> dadosDisco3 <- c(amostraDisco3)
> variacaoDisco3 <- dadosDisco3 - mean(dadosDisco3)
> variacaoDisco3 <- variacaoDisco3 ^ 2
> variancaDisco3 <- mean(variacaoDisco3)
> var(dadosDisco3)
[1] 3.172678e-05
> variancaDisco3
[1] 3.156815e-05
> desvioDisco3 <- sqrt(variancaDisco3)
> sd(dadosDisco3)
[1] 0.005632653
> desvioDisco3
[1] 0.005618554
```

```
> dadosDisco4 <- c(amostraDisco4)
> variacaoDisco4 <- dadosDisco4 - mean(dadosDisco4)
> variacaoDisco4 <- variacaoDisco4 ^ 4
> variancaDisco4 <- mean(variacaoDisco4)
> var(dadosDisco4)
[1] 3.157374e-05
> variancaDisco4
[1] 1.120904e-09
> desvioDisco4 <- sqrt(variancaDisco4)
> sd(dadosDisco4)
[1] 0.005619051
> desvioDisco4
[1] 3.34799e-05
```