```
2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],380)
 ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],380)
 ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],380)
 ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],380)
bolha2 lst6
```

GHCi, version 8.6.5

735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,76
,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,7
6,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,
27,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,668,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,88 ,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,9 0,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949, 50,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980

,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,9 8,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949, 860,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,986

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GHCi, version 8.6.5

* selecao2 lst1

=> ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],210)

* selecao2 lst2

=> ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],1048765)

* selecao2 lst3

=> ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],56475)

* selecao2 lst4

=> ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],525912)

* selecao2 lst5

=> ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],540790)

* selecao2 lst6

=> ([1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],193857)
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,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,76
5,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,7
96,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,88
8,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,9
19,220,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,
950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000],500500)

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GHCi, version 8.6.5

• selecao2 lst8

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Repl.it: Stopping... please wait
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selecao2 lst11
Repl.it: Stopping... please wait
selecao2 lst12
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> selecao2 lst9
=> ([0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],1048806)
> selecao2 lst10
=> ([0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],66716)
> selecao2 lst11
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GHCi, version 8.6.5
 [[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,14,145,146,147,148,144,145,146,147,148,144,145,146,147,148,144,145,146,147,148,144,145,146,147,148,144,145,146,147,148,144,145,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,213,231,232,233,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,274,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,43,444,452,442,443,444,445,446,447,448,449,450,451,452,453,454,455,426,427,428,429,430,431,432,433,343,435,336,337,438,399,30,431,432,343,343,3439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,426,427,428,429,430,431,432,433,434,345,3436,347,348,349,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,426,427,428,429,430,431,432,433,434,345,3436,347,348,349,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,454,445,446,447,448,449,450,451,452,453,454,455,454,455,454,455,454,455,454,455,454,455,454,455,454,455,454,455,
    ,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,24,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,854,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,554,511,512,513,514,554,511,512,513,514,554,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,574,575,57
      791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,8
1,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850
        3,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,900,901,902,903,904,905,906,907,988,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,941,949,
          ,
45,46,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84
5,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,
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GHCi, version 8.6.5

rapido2 lst9

([0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],3 82)

rapido2 lst10

rapido2 lst11

([0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20],2 40)

rapido2 lst11

([0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20],840)

rapido2 lst12

([0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20],840)

rapido2 lst12

([0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20],480)
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⇒ rapido2 lst7

> rapido2 lst8

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bolha3 lst1
=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],380)
bolha3 lst2
=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],380)
bolha3 lst3
=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],380)
bolha3 lst4
=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],380)
bolha3 lst5
=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],380)
bolha3 lst6
=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],380)
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5, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1], 999000)

=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1,0],420)

> bolha3 lst10

=> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1,0],420)

=> ([20,20,19,19

([20,20,10,10,10,18,18,17,17,10,10,15,15,14,14,13,13,12,12,11,11,10,10,9,9,8,8,7,7,0,0,5,5,4,4,3,3,2,2,1,1,0],1040 bolha3 lst12

=> ([20,20,19,19,18,18,17,17,16,16,15,15,14,14,13,13,12,12,11,11,10,10,9,9,8,8,7,7,6,6,5,5,4,4,3,3,2,2,1,1,0],1640]

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GHCi, version 8.6.5

> selecao3 lst1

> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],1048765)
> selecao3 lst2

> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],210)
> selecao3 lst3

> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],525912)
> selecao3 lst4

> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],56475)
> selecao3 lst5

> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],196045)
> selecao3 lst6

> ([20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1],490721)
> |
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