

Traveling Salesman Problem

Milestone: Final Project Report

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Problem Definition

Traveling Salesman Problem (TSP):

The traveling salesman problem (TSP) is an algorithmic problem tasked with finding the shortest route between a set of points and locations that must be visited. In the problem statement, the points are the cities a salesperson might visit. The salesman's goal is to keep both the travel costs and the distance traveled as low as possible. Focused on optimization, TSP is used to find the most efficient route for data to travel between various nodes. The simplest solution is to try all possibilities, but this is also the most time consuming and expensive method. Many solutions use heuristics, which provides probability outcomes. However, the results are approximate and not always optimal. Rather than focus on finding the most effective route, TSP is often concerned with finding the cheapest solution. In TSPs, the large number of variables creates a challenge when finding the shortest route, which makes approximate, fast and cheap solutions all the more attractive.

Approaches

Branch and Bound Depth First Search

In the Branch and Bound method, we calculate a bound on the best possible solution we could obtain if we go down this node from the tree. We disregard the subtree rooted with the node if the bound on the best possible solution is in fact worse than the current best (best computed thus far).

The cost through a node includes two costs.

- 1) Cost of reaching the node from the root. When we reach a node, we have this cost computed.
- 2) Cost of reaching an answer from the current node to a leaf. We compute a bound on this cost to decide whether to ignore subtree with this node or not.

Branch and bound algorithms are used to find the optimal solution for combinatory, discrete, and general mathematical optimization problems. A branch and bound algorithm finds the best answer from the complete search space of options for an NP-Hard problem. A branch and bound algorithm involves enumerating potential candidate solutions step by step while searching the entire search space.

Branch and Bound refer to all state-space search methods in which all the children of an E-node, the node which is being expanded, are generated before any other live node can become the E-node. State-space tree can be expanded by DFS. It starts with the root node and generates other nodes. A node that has been generated and whose children have not yet been expanded is called a live-node. A node is called a dead node, which has been generated, but it cannot be expanded further. In this method, we expand the most promising node, which means the node which promises that expanding or choosing it will give us the optimal solution. So, we prepare the tree starting from the root and then expand it.

Input format

2D array where if there is a node from 0 to 1, then $arr[0][1]$ =weight of the edge from 0 to 1. If there is no edge, then we put the weight as 0.

Algorithm

1. Initialize an array called current path with -1 and visited array with false. Initialize a final path array of size $n+1$, where n is the number of nodes. Initialize a variable total distance as the maximum integer value.

2. Calculate the lower bound for root.

$$\text{Lower bound of root} = (1/2) * \sum (\text{Sum of cost of two edges adjacent to } u \text{ and in the tour } T)$$

where $u \in V$

Round this value off to the nearest integer.

For every vertex u , if we consider two edges through it in T , and sum their costs. The overall sum for all vertices would be twice of cost of tour T (We have considered every edge twice.)

3. Mark the starting node x as visited. Include it in the current path.
4. Start the root calculation process with current weight as 0, level as 1 and lower bound as the lower bound of the root node calculated.
5. Fetch all the vertices that the current node has an edge to.
6. Loop over all these edges.
 - If the vertex has not been visited already, calculate the lower bound for the vertex depending on the level.
 - Add the weight of the edge to the current weight.
 - If level=1,
Calculating lower bound for level 1. Let the chosen node be ' x '
Lower bound of vertex x = Old lower bound - ((minimum edge cost of root + minimum edge cost of x) / 2) + (edge cost start- x)
To include the edge, we add the cost of the edge and subtract an edge weight to keep the lower bound tight. We ensure this as the edge subtracted cannot be smaller than the sum of the minimum edges from start to x divided by 2.
 - Else if level>1
Lower bound for level 2 and onwards=
It is calculated in a similar manner to level 1. Let the node chosen be ' y '
Lower bound(y) = Old lower bound - ((second minimum edge cost of x + minimum edge cost of y)/2) + edge cost x - y)
Here we take the second minimum edge of x as the first minimum has already been subtracted while calculating the lower bound for level 2.
 - If the current bound+the weight of the edge<final result

Include the node into the current level and mark the node as visited.

Also repeat step 4 by passing the latest calculated current bound, current weight, level+1 and the current path.

- Reset the current weight by subtracting the weight of the edge. Also reset the visited array to false and only mark the elements in the current path as true.
 - If the level is equal to the number of nodes, check if there is a vertex from the last node to the starting node.
 - Calculate the weight by adding the weight of the edge. If this weight is less than the prior calculated weights, copy the path as the final result and store the sum as the final sum.
7. End Loop
 8. Print the final result.

Properties:

Time Complexity Analysis

Branch and Bound is a Brute Force approach because in the worst case we may never get a chance to omit a node.

If we can access each node in $O(1)$ time, then with branching factor of b and max depth of m , the total number of nodes in this tree would be worst case $= 1 + b + b^2 + \dots + b^{m-1}$. Using the formula for summing a geometric sequence (or even solving it ourselves) tells that this sums to $= (b^m - 1)/(b - 1)$, resulting in total time to visit each node proportional to b^m . Hence the complexity $= O(b^m)$.

Space Complexity Analysis

The length of the longest path $= m$. For each node, we have to store its siblings so that when we have visited all the children, and we come back to a parent node, we can know which sibling to explore next. For m nodes down the path, we will have to store b nodes extra for each of the m nodes. That's how we get an $O(bm)$ space complexity.

Completeness

TSP is classified as NP-hard because it has no quick solution and the complexity of calculating the best route will increase when we add more destinations to the problem and the proposed algorithm is also NP-Hard.

Optimality

Branch-and-bound (BnB) is the best method for finding an optimal solution of the TSP following a brute force approach. Our proposed algorithm is close to optimal solution, however the search space increases largely with a small increase in the number of states. Hence, though this

algorithm gives an almost optimal solution, a general approach is to go for other enhanced algorithms like genetic algorithms and greedy approaches which use a reasonable amount of resources that are feasible.

Observations and Future Scope

The mentioned algorithm was run on a variety of inputs. These inputs varied with each other in the number of states, distances, routes and variance of the distances. We observed that this brute force method works well when the number of states is less than 50. When the states were higher than 50, the program took more than 10 minutes to execute. This response was observed to be a little better when the JVM memory was increased.

Another observation which could be made was that the performance of the algorithm varied depending on the sparsity of the input matrix. This could be reasoned as there were lesser routes to be explored which significantly decreased our search space, hence allowing the algorithm to perform better.

As a future enhancement we could add a feature to this algorithm where we set a timeout limit and just before the timeout we display the best route explored by then.

Stochastic Local Search

Stochastic local search (SLS) algorithms are among the most prominent and successful techniques for solving computationally difficult problems in many areas of computer science and operations research, including propositional satisfiability, constraint satisfaction, routing, and scheduling. A famous stochastic local search method is simulated annealing. Simulated annealing uses a noise model inspired by statistical mechanics. At each step, the algorithm picks a variable and a value, and then computes the change in the cost function when the value of the variable is changed to the value picked. If this change improves or has no impact on the cost function, we make the change. Otherwise, we make the change. The temperature can be held constant, or slowly reduced from a high temperature to a near zero temperature according to some cooling schedule. This algorithm converges to the exact solution if the temperature T is reduced gradually.

We will have a temperature variable to simulate the heating process. We will assign it a high initial value and then slowly decrease it (cool it) as the algorithm runs. We will (more frequently) accept solutions which are worse than our current solution as long as this temperature variable is still high. By doing this, we allow the algorithm to jump out of any local optimums it goes to early while it is executing. The chance of accepting worse solutions will reduce as the temperature decreases. By doing this, we allow the algorithm to slowly focus on an area of the search space in which a close to optimum solution can be found.

Data Structures

Class Name: Location

The class location consists of 2 data points namely list of distances and locationName of type String. The distance at the i th position is the distance of the i th city with the city.

The class consists of getters and setters for each of these attributes and a parameterized constructor that takes in locationName and distance 2D matrix specifying the distance between all the cities. The constructor fetches the values of distances for the city from the matrix and stores it in the list of distances.

Class Name: TripHelper

The class tripHelper contains an array list of all the locations. It contains a function called noOfLocations that returns the size of the array list. Another function called getLocation that gives the location at the given index. The third function addLocation adds the location to the array list.

Class Name: Trip

This class contains an array list of locations called tripList, also an integer distance initialized as 0. It has 2 constructors, one is parameterized and other non-parameterized. The parameterized constructor takes in an array list of locations and clones it to the array list, tripList. The non-parameterized constructor initiates the tripList to null. The size of the tripList is equal to the noOfLocation variable of the tour helper class. We have a getter method for the tripList. We also

have a function called generateRandomTrip. Here we fill the tripList with all the cities and then shuffle it. Method getLocation takes in an index and gives the location at that index of the array list. Method setLocation takes in an index and a location and sets it in tripList at the given index. It also resets the distance to zero. The method getTotalDistance calculates the total distance of the trip, it also includes the distance from the last location to the first location. The method tripSize returns the size of the array list, tripList. The toString method prints all the locations of the trip in order.

Class Name: TripUtility

No variable parameters. The function distance calculates the Euclidean distance between the 2 locations provided. The function acceptanceProbability tells us whether to choose the new location or not. It takes in 2 integers currentDistance and newDistance and a temperature of type double. The heuristic used for the function is $\exp((\text{currentDistance} - \text{newDistance}) / \text{temperature})$. The function generateRandom creates a random variable of the range 0 to 1. The function generateRandomInteger returns a random integer value within a given range(min,max), min is inclusive and max is non inclusive.

Class Name: TSPSIs

We are using simulated annealing as the heuristic function. In this class we initialize all the locations and add them to the location array list in the tripHelper class. We initialize the variable temperature to 100,000. We take the cooling rate at 0.003. We create the first trip for reference using the function generateRandomTrip of the class trip. We mark this trip as the best trip. We run a loop till temperature is more than 1. Inside this loop we will create a new trip by swapping 2 random locations. We will calculate the distance of this new trip and calculate its acceptance probability. If the acceptance probability is greater than the random number generated using the function generateRandom. We mark this trip as the current solution. If its total distance is less than the total distance of the best trip, then this becomes the best trip. Decrease the temperature by cooling rate. We print the best solution that we have found.

Algorithm

1. Initialize all locations and add them to the tripHelper.
2. Initialize temperature to 100,000
3. Initialize cooling rate to 0.003
4. Generate a random trip for reference and mark it as the best trip and the current trip.
5. Loop till temperature > 1
 - Get 2 random positions using the function generateRandomInteger of the tripUtility class
 - Fetch the cities located at the 2 random integers
 - Swap these cities
 - Calculate the total distance of the new trip
 - Generate a random number using the function generateRandom of the class tripUtility
 - Calculate the acceptance probability by passing the distance of the current solution, new solution and temperature.
 - If this solution is greater than the random variable, then mark it as the current solution.

- If the distance of current solution is less than the distance of the best solution, mark this as the best trip.
- Decrease temperature by the cooling rate, $\text{temp} = \text{temp} * (1 - \text{cooling rate})$

End loop

6. Print the locations of the best trip in order

Properties:

Time Complexity Analysis

Here the main algorithm runs a for loop temp number of times. In the for loop, we call the functions getTotalDistance, distance, acceptanceProbability, generateRandom and generateRandomInteger. The complexity of all functions apart from getTotalDistance is $O(1)$. The complexity of getTotalDistance is $O(n)$ where n is the number of nodes. This function will be called temp times. Hence we can estimate the overall complexity to be $O(m*n)$, where m is the temperature and n is the number of nodes.

Space Complexity Analysis

At any point in this program we are storing 3 arrays, one that denotes the best trip, one that denotes the current solution and one that stores the latest trip. Each trip is an array list of locations. If there are n locations, we can estimate the space complexity to be $O(n)$.

Completeness

TSP is classified as NP-hard because it has no quick solution and the complexity of calculating the best route will increase when we add more destinations to the problem and the proposed algorithm is also NP-Hard.

Optimality

Finding an optimal solution for certain optimization problems can be an incredibly difficult task, often practically impossible. This is because when a problem gets sufficiently large we need to search through an enormous number of possible solutions to find the optimal one. Traveling salesman problem usually has a large number of possible solutions. In order to find a solution to a problem such as the traveling salesman problem we need to use an algorithm that's able to find a good enough solution in a reasonable amount of time. Our proposed algorithm is a close to optimal solution.

Observations and Future Scope

The mentioned algorithm was run on a variety of inputs. These inputs varied with each other in the number of states, distances, routes and variance of the distances. The heuristic used here is simulated annealing and the quality of the result depends upon temperature and the cooling rate

that we have selected. It was observed that the quality improved with an increase in temperature and decrease in cooling rate. This response can be reasoned with the fact that an increase in temperature and decrease in cooling rate results in an increase in the number of iterations, hence allowing the program to explore more number of paths.

It was also observed that this program did not result in a timeout even with 1000 nodes. This is because we limit the search space and choose the best of all the outputs that we have received. This definitely proves that the heuristic approach is more powerful than the brute force approach used earlier, in respect to the number of nodes.

As a future enhancement, for better optimisation when initializing the temperature variable we should select a temperature that will initially allow for practically any move against the current solution. This gives the algorithm the ability to better explore the entire search space before cooling and settling in a more focused region. Also we can choose an ideal distance range and stop the processing of the program once we receive a distance within that range.

Appendix

BnB

tour length, time taken in seconds, number of nodes expanded, path

1. 2430.4857256816717, 0.004, 25, 0 -> 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 16 -> 10 -> 9 -> 7 -> 8 -> 18 -> 11 -> 12 -> 24 -> 14 -> 22 -> 19 -> 23 -> 21 -> 13 -> 17 -> 20 -> 15 -> 0
2. 1328.336309804962, 3.661, 25, 0 -> 1 -> 3 -> 22 -> 24 -> 2 -> 6 -> 12 -> 9 -> 4 -> 16 -> 20 -> 10 -> 15 -> 7 -> 23 -> 13 -> 18 -> 8 -> 14 -> 19 -> 11 -> 17 -> 5 -> 21 -> 0
3. 2242.9938637421924, 0.008, 25, 0 -> 1 -> 20 -> 5 -> 4 -> 6 -> 12 -> 7 -> 3 -> 2 -> 10 -> 8 -> 13 -> 15 -> 23 -> 21 -> 19 -> 22 -> 9 -> 24 -> 16 -> 17 -> 11 -> 14 -> 18 -> 0
4. 1317.0486540674603, 5.332, 25, 0 -> 1 -> 10 -> 7 -> 12 -> 8 -> 9 -> 19 -> 4 -> 16 -> 24 -> 22 -> 15 -> 23 -> 14 -> 18 -> 13 -> 2 -> 21 -> 6 -> 5 -> 20 -> 17 -> 3 -> 11 -> 0
5. 2274.5600322320333, 0.083, 25, 0 -> 1 -> 2 -> 11 -> 3 -> 12 -> 8 -> 23 -> 5 -> 4 -> 9 -> 13 -> 15 -> 6 -> 24 -> 20 -> 21 -> 16 -> 10 -> 22 -> 17 -> 18 -> 19 -> 7 -> 14 -> 0
6. 1441.89429826582, 6.745, 25, 0 -> 3 -> 6 -> 13 -> 23 -> 21 -> 24 -> 10 -> 15 -> 11 -> 22 -> 19 -> 20 -> 17 -> 9 -> 4 -> 18 -> 7 -> 12 -> 16 -> 8 -> 1 -> 5 -> 2 -> 14 -> 0
7. 2254.554033409187, 0.019, 25, 0 -> 1 -> 2 -> 18 -> 6 -> 3 -> 10 -> 8 -> 11 -> 4 -> 5 -> 14 -> 7 -> 22 -> 17 -> 21 -> 24 -> 23 -> 19 -> 16 -> 20 -> 15 -> 9 -> 12 -> 13 -> 0
8. 1423.510211730076, 43.763, 25, 0 -> 1 -> 21 -> 18 -> 6 -> 16 -> 11 -> 15 -> 23 -> 2 -> 9 -> 19 -> 14 -> 7 -> 10 -> 24 -> 22 -> 4 -> 20 -> 13 -> 8 -> 12 -> 5 -> 17 -> 3 -> 0
9. 2265.620121481412, 0.043, 25, 0 -> 1 -> 10 -> 5 -> 7 -> 3 -> 6 -> 4 -> 8 -> 9 -> 12 -> 16 -> 17 -> 19 -> 13 -> 23 -> 14 -> 22 -> 21 -> 24 -> 18 -> 15 -> 11 -> 20 -> 2 -> 0
10. 1313.0909670809153, 3.059, 25, 0 -> 1 -> 2 -> 10 -> 17 -> 24 -> 23 -> 6 -> 12 -> 21 -> 11 -> 18 -> 14 -> 13 -> 22 -> 4 -> 20 -> 9 -> 16 -> 7 -> 3 -> 19 -> 8 -> 5 -> 15 -> 0
11. 4541.317383718083, 0.46, 50, 0 -> 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 38 -> 11 -> 14 -> 8 -> 16 -> 15 -> 12 -> 17 -> 18 -> 49 -> 27 -> 13 -> 21 -> 19 -> 9 -> 20 -> 10 -> 28 -> 22 -> 47 -> 33 -> 25 -> 31 -> 23 -> 24 -> 48 -> 40 -> 29 -> 34 -> 30 -> 46 -> 44 -> 42 -> 43 -> 41 -> 45 -> 39 -> 36 -> 37 -> 26 -> 35 -> 32 -> 0
12. , timeout, 46,
13. 4395.075617123428, 0.204, 50, 0 -> 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 45 -> 9 -> 12 -> 13 -> 10 -> 8 -> 15 -> 7 -> 20 -> 14 -> 17 -> 18 -> 21 -> 19 -> 22 -> 23 -> 16 -> 26 -> 27 -> 32 -> 34 -> 49 -> 25 -> 24 -> 31 -> 28 -> 35 -> 30 -> 44 -> 46 -> 33 -> 41 -> 42 -> 48 -> 47 -> 39 -> 43 -> 37 -> 40 -> 36 -> 29 -> 11 -> 38 -> 0
14. , timeout, 39,
15. 4454.004381642271, 1.023, 50, 0 -> 1 -> 2 -> 3 -> 4 -> 5 -> 41 -> 6 -> 9 -> 12 -> 8 -> 7 -> 19 -> 11 -> 17 -> 10 -> 21 -> 13 -> 48 -> 24 -> 20 -> 25 -> 26 -> 16 -> 23 -> 34 -> 15 -> 18 -> 31 -> 14 -> 30 -> 37 -> 28 -> 38 -> 33 -> 47 -> 29 -> 36 -> 46 -> 22 -> 45 -> 43 -> 39 -> 44 -> 42 -> 40 -> 32 -> 35 -> 27 -> 49 -> 0
16. , timeout, 41,
17. 4437.513634256575, 51.327, 50, 0 -> 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 49 -> 9 -> 10 -> 11 -> 15 -> 13 -> 17 -> 18 -> 14 -> 22 -> 20 -> 48 -> 24 -> 16 -> 47 -> 12 -> 25 -> 23 -> 8 -> 46 -> 26 -> 28 -> 27 -> 30 -> 21 -> 19 -> 29 -> 44 -> 34 -> 45 -> 33 -> 42 -> 43 -> 41 -> 38 -> 37 -> 40 -> 35 -> 32 -> 31 -> 39 -> 36 -> 0
18. , timeout, 39,
19. 4415.0073890395315, 14.75, 50, 0 -> 1 -> 2 -> 39 -> 6 -> 4 -> 7 -> 12 -> 5 -> 14 -> 9 -> 8 -> 13 -> 16 -> 15 -> 20 -> 17 -> 10 -> 19 -> 23 -> 11 -> 46 -> 24 -> 25 -> 18 -> 3 -> 26 -> 21 -> 30 -> 31 -> 27 -> 36 -> 40 -> 34 -> 33 -> 35 -> 49 -> 48 -> 42 -> 47 -> 38 -> 45 -> 43 -> 32 -> 22 -> 44 -> 29 -> 37 -> 28 -> 41 -> 0
20. , timeout, 45

SLS

Tour length, Runtime, Number of iterations, Path

- 203.8252640183441, 0.013, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 8 -> 9 -> 10 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 23 -> 24 -> 0 -> 1
- 297.41083723288943, 0.003, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 15 -> 7 -> 8 -> 9 -> 10 -> 12 -> 6 -> 13 -> 14 -> 23 -> 16 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 11 -> 24 -> 0 -> 1
- 184.98554285834686, 0.004, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 13 -> 8 -> 9 -> 10 -> 11 -> 12 -> 7 -> 14 -> 15 -> 16 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 23 -> 24 -> 0 -> 1
- 104.09730813492065, 0.003, 3832, 1 -> 2 -> 3 -> 19 -> 5 -> 6 -> 7 -> 8 -> 9 -> 10 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 17 -> 18 -> 4 -> 20 -> 21 -> 22 -> 23 -> 24 -> 0 -> 1
- 194.64412050636741, 0.003, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 19 -> 7 -> 8 -> 9 -> 10 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 17 -> 18 -> 6 -> 20 -> 21 -> 22 -> 23 -> 24 -> 0 -> 1
- 246.44604149725086, 0.003, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 8 -> 9 -> 19 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 17 -> 18 -> 20 -> 10 -> 21 -> 22 -> 23 -> 24 -> 0 -> 1
- 196.1926980096105, 0.003, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 8 -> 9 -> 10 -> 11 -> 12 -> 15 -> 14 -> 13 -> 16 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 23 -> 24 -> 0 -> 1
- 134.0124716032263, 0.003, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 13 -> 9 -> 10 -> 11 -> 12 -> 8 -> 14 -> 15 -> 16 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 23 -> 24 -> 0 -> 1
- 189.96421386536144, 0.005, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 8 -> 9 -> 10 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 17 -> 24 -> 19 -> 20 -> 21 -> 22 -> 23 -> 18 -> 0 -> 1
- 153.89056619762567, 0.002, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 8 -> 9 -> 10 -> 11 -> 12 -> 13 -> 14 -> 15 -> 16 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 24 -> 23 -> 0 -> 1
- 1929.8616607804638, 0.003, 3832, 1 -> 2 -> 27 -> 4 -> 5 -> 3 -> 7 -> 18 -> 9 -> 10 -> 33 -> 12 -> 13 -> 17 -> 15 -> 16 -> 42 -> 22 -> 6 -> 30 -> 35 -> 46 -> 19 -> 24 -> 25 -> 26 -> 38 -> 28 -> 29 -> 11 -> 31 -> 23 -> 8 -> 34 -> 21 -> 36 -> 37 -> 14 -> 39 -> 40 -> 41 -> 20 -> 43 -> 44 -> 45 -> 32 -> 47 -> 48 -> 49 -> 0 -> 1
- 1523.0120197526555, 0.003, 3832, 1 -> 18 -> 49 -> 4 -> 34 -> 36 -> 7 -> 8 -> 22 -> 10 -> 26 -> 6 -> 13 -> 23 -> 24 -> 9 -> 3 -> 12 -> 5 -> 20 -> 21 -> 31 -> 16 -> 48 -> 25 -> 37 -> 11 -> 28 -> 29 -> 19 -> 27 -> 0 -> 33 -> 30 -> 35 -> 17 -> 43 -> 38 -> 45 -> 40 -> 41 -> 42 -> 32 -> 44 -> 39 -> 46 -> 47 -> 15 -> 14 -> 2 -> 1
- 1429.2514770315463, 0.002, 3832, 1 -> 7 -> 3 -> 4 -> 5 -> 39 -> 35 -> 8 -> 9 -> 10 -> 27 -> 12 -> 2 -> 30 -> 26 -> 36 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 23 -> 14 -> 25 -> 24 -> 16 -> 28 -> 29 -> 6 -> 31 -> 32 -> 33 -> 34 -> 11 -> 13 -> 37 -> 38 -> 15 -> 40 -> 41 -> 42 -> 43 -> 44 -> 45 -> 46 -> 47 -> 48 -> 49 -> 0 -> 1
- 1389.865358712402, 0.002, 3832, 18 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> 8 -> 9 -> 10 -> 11 -> 23 -> 47 -> 14 -> 15 -> 16 -> 17 -> 26 -> 19 -> 20 -> 21 -> 22 -> 13 -> 24 -> 25 -> 32 -> 33 -> 28 -> 29 -> 30 -> 31 -> 12 -> 27 -> 1 -> 46 -> 38 -> 37 -> 45 -> 34 -> 40 -> 41 -> 42 -> 36 -> 44 -> 39 -> 35 -> 43 -> 48 -> 49 -> 0 -> 18
- 1431.1495222814583, 0.002, 3832, 1 -> 2 -> 3 -> 4 -> 49 -> 6 -> 7 -> 8 -> 5 -> 10 -> 11 -> 12 -> 13 -> 14 -> 32 -> 16 -> 15 -> 18 -> 26 -> 47 -> 21 -> 22 -> 23 -> 24 -> 25 -> 27 -> 17 -> 19 -> 29 -> 30 -> 28 -> 31 -> 9 -> 34 -> 35 -> 36 -> 37 -> 38 -> 39 -> 40 -> 41 -> 42 -> 43 -> 44 -> 20 -> 46 -> 45 -> 48 -> 33 -> 0 -> 1
- 1283.9554683538595, 0.003, 3832, 43 -> 14 -> 3 -> 4 -> 33 -> 6 -> 7 -> 24 -> 9 -> 10 -> 11 -> 1 -> 34 -> 49 -> 27 -> 16 -> 39 -> 18 -> 19 -> 20 -> 17 -> 22 -> 46 -> 8 -> 25 -> 26 -> 5 -> 28 -> 29 -> 30 -> 31 -> 32 -> 12 -> 15 -> 35 -> 36 -> 37 -> 38 -> 13 -> 40 -> 41 -> 42 -> 2 -> 21 -> 45 -> 23 -> 47 -> 48 -> 44 -> 0 -> 43
- 1971.8827674841054, 0.003, 3832, 1 -> 2 -> 5 -> 4 -> 44 -> 35 -> 7 -> 8 -> 9 -> 11 -> 24 -> 47 -> 13 -> 31 -> 15 -> 16 -> 30 -> 18 -> 10 -> 20 -> 23 -> 22 -> 21 -> 43 -> 25 -> 26 -> 27 -> 28 -> 29 -> 6 -> 17 -> 32 -> 45 -> 34 -> 14 -> 36 -> 37 -> 38 -> 39 -> 40 -> 41 -> 42 -> 19 -> 12 -> 33 -> 46 -> 49 -> 48 -> 3 -> 0 -> 1
- 1541.2290784078482, 0.002, 3832, 1 -> 12 -> 37 -> 13 -> 5 -> 25 -> 7 -> 16 -> 9 -> 0 -> 11 -> 42 -> 14 -> 8 -> 15 -> 6 -> 17 -> 18 -> 19 -> 20 -> 21 -> 22 -> 23 -> 24 -> 26 -> 48 -> 27 -> 28 -> 29 -> 46 -> 31 -> 32 -> 33 -> 34 -> 35 -> 2 -> 3 -> 38 -> 39 -> 40 -> 41 -> 30 -> 43 -> 47 -> 45 -> 4 -> 44 -> 49 -> 36 -> 10 -> 1
- 1915.9430999727879, 0.003, 3832, 1 -> 10 -> 3 -> 2 -> 5 -> 6 -> 7 -> 42 -> 9 -> 40 -> 31 -> 12 -> 13 -> 14 -> 15 -> 38 -> 17 -> 18 -> 26 -> 20 -> 29 -> 22 -> 27 -> 28 -> 25 -> 19 -> 23 -> 16 -> 8 -> 30 -> 21 -> 32 -> 24 -> 34 -> 35 -> 36 -> 37 -> 11 -> 39 -> 0 -> 41 -> 33 -> 43 -> 44 -> 45 -> 46 -> 47 -> 48 -> 49 -> 4 -> 1
- 1448.4426976337895, 0.002, 3832, 1 -> 2 -> 3 -> 10 -> 5 -> 29 -> 7 -> 8 -> 9 -> 4 -> 11 -> 12 -> 14 -> 39 -> 15 -> 16 -> 17 -> 18 -> 47 -> 31 -> 21 -> 22 -> 19 -> 24 -> 25 -> 32 -> 27 -> 28 -> 36 -> 30 -> 33 -> 37 -> 23 -> 34 -> 35 -> 20 -> 26 -> 42 -> 13 -> 40 -> 41 -> 38 -> 43 -> 44 -> 45 -> 6 -> 46 -> 48 -> 49 -> 0 -> 1
- 4474.261705267482, 0.004, 3832, 12 -> 2 -> 3 -> 4 -> 64 -> 6 -> 18 -> 72 -> 14 -> 24 -> 9 -> 43 -> 74 -> 37 -> 46 -> 16 -> 17 -> 29 -> 13 -> 20 -> 26 -> 22 -> 36 -> 50 -> 40 -> 21 -> 27 -> 28 -> 73 -> 30 -> 60 -> 71 -> 33 -> 44 -> 35 -> 23 -> 57 -> 38 -> 39 -> 8 -> 41 -> 42 -> 34 -> 61 -> 65 -> 56 -> 47 -> 48 -> 49 -> 70 -> 59 -> 52 -> 53 -> 54 -> 25 -> 7 -> 51 -> 45 -> 66 -> 15 -> 19 -> 62 -> 63 -> 11 -> 5 -> 31 -> 67 -> 68 -> 69 -> 32 -> 55 -> 58 -> 0 -> 1 -> 10 -> 12
- 3930.589488345509, 0.003, 3832, 26 -> 73 -> 3 -> 51 -> 38 -> 23 -> 44 -> 70 -> 21 -> 19 -> 6 -> 2 -> 35 -> 14 -> 15 -> 53 -> 17 -> 18 -> 64 -> 39 -> 1 -> 47 -> 65 -> 13 -> 66 -> 30 -> 49 -> 28 -> 63 -> 5 -> 31 -> 37 -> 27 -> 34 -> 40 -> 0 -> 32 -> 69 -> 29 -> 12 -> 42 -> 55 -> 43 -> 22 -> 33 -> 46 -> 7 -> 45 -> 36 -> 50 -> 72 -> 52 -> 16 -> 54 -> 24 -> 60 -> 57 -> 4 -> 59 -> 56 -> 58 -> 62 -> 10 -> 20 -> 9 -> 61 -> 67 -> 68 -> 25 -> 8 -> 71 -> 11 -> 48 -> 74 -> 41 -> 26
- 4159.56668862745, 0.002, 3832, 31 -> 2 -> 3 -> 4 -> 46 -> 6 -> 7 -> 35 -> 9 -> 10 -> 40 -> 37 -> 13 -> 14 -> 15 -> 61 -> 59 -> 12 -> 64 -> 60 -> 21 -> 22 -> 49 -> 24 -> 25 -> 26 -> 45 -> 28 -> 29 -> 30 -> 16 -> 32 -> 33 -> 36 -> 11 -> 47 -> 1 -> 62 -> 20 -> 43 -> 27 -> 63 -> 74 -> 57 -> 23 -> 5 -> 55 -> 48 -> 38 -> 50 -> 69 -> 17 -> 53 -> 54 -> 52 -> 56 -> 34 -> 58 -> 65 -> 39 -> 42 -> 44 -> 66 -> 8 -> 71 -> 67 -> 41 -> 68 -> 18 -> 70 -> 19 -> 72 -> 73 -> 51 -> 0 -> 31
- 3164.3005835027316, 0.001, 3832, 63 -> 68 -> 12 -> 67 -> 0 -> 3 -> 70 -> 8 -> 6 -> 37 -> 55 -> 15 -> 13 -> 32 -> 22 -> 16 -> 17 -> 18 -> 73 -> 31 -> 62 -> 72 -> 23 -> 24 -> 25 -> 28 -> 27 -> 54 -> 29 -> 30 -> 34 -> 20 -> 49 -> 53 -> 57 -> 36 -> 21 -> 38 -> 39 -> 66 -> 41 -> 42 -> 43 -> 58 -> 45 -> 46 -> 47 -> 61 -> 65 -> 50 -> 7 -> 52 -> 48 -> 14 -> 11 -> 56 -> 51 -> 71 -> 59 -> 60 -> 10 -> 40 -> 1 -> 64 -> 44 -> 26 -> 9 -> 4 -> 69 -> 2 -> 33 -> 35 -> 19 -> 74 -> 5 -> 63

25. 4298.518291294066, 0.006, 3832, 1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 40 -> 49 -> 9 -> 10 -> 11 -> 71 -> 51 -> 34 -> 65 -> 14 -> 36 -> 31 -> 19 -> 47 -> 21 -> 13 -> 23 -> 24 -> 74 -> 26 -> 56 -> 28 -> 29 -> 67 -> 58 -> 50 -> 33 -> 62 -> 22 -> 52 -> 8 -> 38 -> 42 -> 15 -> 41 -> 16 -> 69 -> 44 -> 45 -> 68 -> 43 -> 48 -> 18 -> 17 -> 64 -> 37 -> 25 -> 54 -> 55 -> 46 -> 59 -> 30 -> 35 -> 60 -> 32 -> 27 -> 63 -> 20 -> 53 -> 66 -> 12 -> 73 -> 39 -> 70 -> 57 -> 72 -> 7 -> 61 -> 0 -> 1
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37. 7072.578058357847, 0.004, 3832, 54 -> 36 -> 10 -> 9 -> 5 -> 40 -> 34 -> 38 -> 4 -> 47 -> 11 -> 19 -> 88 -> 14 -> 28 -> 16 -> 17 -> 18 -> 61 -> 39 -> 30 -> 86 -> 23 -> 53 -> 25 -> 89 -> 0 -> 12 -> 33 -> 65 -> 76 -> 41 -> 45 -> 78 -> 3 -> 99 -> 7 -> 79 -> 58 -> 22 -> 55 -> 15 -> 43 -> 75 -> 29 -> 49 -> 42 -> 80 -> 27 -> 98 -> 50 -> 83 -> 51 -> 84 -> 56 -> 26 -> 57 -> 73 -> 13 -> 48 -> 37 -> 62 -> 63 -> 97 -> 60 -> 77 -> 44 -> 68 -> 69 -> 70 -> 2 -> 72 -> 35 -> 21 -> 59 -> 52 -> 85 -> 67 -> 71 -> 66 -> 81 -> 82 -> 1 -> 46 -> 64 -> 8 -> 87 -> 32 -> 95 -> 90 -> 91 -> 92 -> 93 -> 94 -> 31 -> 96 -> 24 -> 6 -> 74 -> 20 -> 54
38. 5775.9337421861665, 0.006, 3832, 1 -> 48 -> 80 -> 60 -> 5 -> 91 -> 7 -> 87 -> 9 -> 70 -> 11 -> 81 -> 36 -> 14 -> 15 -> 10 -> 63 -> 77 -> 58 -> 20 -> 16 -> 25 -> 71 -> 27 -> 44 -> 74 -> 12 -> 49 -> 35 -> 50 -> 86 -> 17 -> 33 -> 92 -> 84 -> 57 -> 19 -> 46 -> 39 -> 40 -> 99 -> 69 -> 2 -> 22 -> 55 -> 30 -> 67 -> 21 -> 97 -> 65 -> 51 -> 43 -> 53 -> 18 -> 85 -> 64 -> 4 -> 78 -> 54 -> 32 -> 61 -> 94 -> 96 -> 90 -> 82 -> 29 -> 23 -> 68 -> 38 -> 3 -> 13 -> 8 -> 62 -> 66 -> 47 -> 76 -> 28 -> 95 -> 89 -> 41 -> 75 -> 56 -> 42 -> 24 -> 52 -> 93 -> 31 -> 34 -> 37 -> 83 -> 98 -> 79 -> 72 -> 45 -> 6 -> 26 -> 73 -> 88 -> 59 -> 0 -> 1
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49. 18078.17542360708, 0.004, 3832, 136 -> 18 -> 162 -> 129 -> 132 -> 66 -> 187 -> 50 -> 164 -> 109 -> 74 -> 119 -> 140 -> 29 -> 69 -> 22 -> 167 -> 165 -> 75 -> 118 -> 62 -> 152 -> 169 -> 16 -> 91 -> 1 -> 111 -> 34 -> 33 -> 70 -> 146 -> 81 -> 142 -> 178 -> 52 -> 54 -> 133 -> 38 -> 179 -> 191 -> 113 -> 180 -> 89 -> 189 -> 130 -> 116 -> 93 -> 99 -> 49 -> 125 -> 51 -> 101 -> 61 -> 85 -> 2 -> 166 -> 57 -> 186 -> 27 -> 78 -> 72 -> 117 -> 11 -> 64 -> 108 -> 44 -> 86 -> 122 -> 134 -> 147 -> 182 -> 121 -> 6 -> 25 -> 42 -> 83 -> 21 -> 154 -> 4 -> 26 -> 150 -> 82 -> 58 -> 32 -> 194 -> 31 -> 23 -> 84 -> 183 -> 97 -> 128 -> 174 -> 55 -> 3 -> 137 -> 115 -> 10 -> 65 -> 175 -> 14 -> 171 -> 141 -> 170 -> 198 -> 192 -> 103 -> 181 -> 124 -> 15 -> 28 -> 161 -> 190 -> 188 -> 106 -> 20 -> 156 -> 96 -> 126 -> 76 -> 94 -> 56 -> 73 -> 80 -> 90 -> 39 -> 12 -> 102 -> 199 -> 71 -> 157 -> 131 -> 149 -> 104 -> 41 -> 5 -> 135 -> 30 -> 145 -> 79 -> 48 -> 0 -> 184 -> 47 -> 37 -> 139 -> 67 -> 176 -> 148 -> 45 -> 59 -> 63 -> 195 -> 9 -> 163 -> 155 -> 110 -> 158 -> 36 -> 107 -> 160 -> 153 -> 88 -> 8 -> 123 -> 105 -> 87 -> 193 -> 35 -> 43 -> 77 -> 143 -> 144 -> 95 -> 138 -> 173 -> 100 -> 60 -> 114 -> 19 -> 172 -> 168 -> 112 -> 68 -> 185 -> 13 -> 120 -> 17 -> 40 -> 177 -> 151 -> 98 -> 127 -> 92 -> 53 -> 46 -> 196 -> 159 -> 24 -> 7 -> 197 -> 136
50. 13132.687781360119, 0.004, 3832, 45 -> 165 -> 162 -> 104 -> 187 -> 120 -> 195 -> 168 -> 96 -> 39 -> 105 -> 88 -> 20 -> 129 -> 158 -> 16 -> 102 -> 157 -> 193 -> 33 -> 180 -> 22 -> 114 -> 184 -> 108 -> 92 -> 107 -> 53 -> 134 -> 147 -> 89 -> 74 -> 3 -> 23 -> 113 -> 14 -> 37 -> 47 -> 149 -> 163 -> 29 -> 199 -> 7 -> 160 -> 117 -> 2 -> 98 -> 48 -> 170 -> 83 -> 32 -> 97 -> 5 -> 156 -> 135 -> 54 -> 26 -> 112 -> 10 -> 72 -> 35 -> 109 -> 82 -> 85 -> 145 -> 64 -> 1 -> 60 -> 38 -> 6 -> 167 -> 121 -> 122 -> 127 -> 91 -> 171 -> 18 -> 110 -> 63 -> 192 -> 138 -> 186 -> 81 -> 100 -> 143 -> 86 -> 87 -> 9 -> 124 -> 80 -> 173 -> 111 -> 66 -> 77 -> 59 -> 137 -> 131 -> 136 -> 161 -> 42 -> 8 -> 126 -> 21 -> 61 -> 75 -> 73 -> 44 -> 182 -> 17 -> 185 -> 62 -> 175 -> 128 -> 79 -> 51 -> 154 -> 169 -> 43 -> 196 -> 132 -> 95 -> 71 -> 106 -> 34 -> 68 -> 52 -> 139 -> 19 -> 103 -> 130 -> 13 -> 11 -> 70 -> 27 -> 140 -> 78 -> 99 -> 159 -> 181 -> 178 -> 142 -> 55 -> 191 -> 94 -> 166 -> 146 -> 30 -> 58 -> 25 -> 150 -> 141 -> 174 -> 144 -> 12 -> 155 -> 116 -> 179 -> 189 -> 188 -> 151 -> 49 -> 118 -> 69 -> 164 -> 41 -> 67 -> 46 -> 40 -> 36 -> 57 -> 119 -> 84 -> 90 -> 152 -> 31 -> 198 -> 190 -> 0 -> 123 -> 115 -> 56 -> 24 -> 133 -> 28 -> 197 -> 125 -> 65 -> 153 -> 76 -> 183 -> 177 -> 4 -> 194 -> 172 -> 148 -> 50 -> 15 -> 93 -> 176 -> 101 -> 45
51. 27926.14340065144, 0.006, 3832, 91 -> 192 -> 3 -> 204 -> 221 -> 23 -> 7 -> 259 -> 212 -> 207 -> 51 -> 241 -> 44 -> 268 -> 92 -> 172 -> 291 -> 169 -> 164 -> 141 -> 114 -> 122 -> 295 -> 81 -> 87 -> 13 -> 202 -> 159 -> 213 -> 284 -> 135 -> 129 -> 189 -> 186 -> 96 -> 253 -> 128 -> 276 -> 39 -> 12 -> 224 -> 280 -> 299 -> 47 -> 97 -> 223 -> 249 -> 115 -> 49 -> 77 -> 252 -> 162 -> 250 -> 73 -> 218 -> 194 -> 14 -> 78 -> 208 -> 94 -> 187 -> 242 -> 279 -> 103 -> 211 -> 10 -> 145 -> 270 -> 170 -> 82 -> 297 -> 83 -> 156 -> 37 -> 163 -> 150 -> 107 -> 24 -> 45 -> 236 -> 67 -> 261 -> 90 -> 229 -> 151 -> 99 -> 161 -> 269 -> 153 -> 197 -> 184 -> 183 -> 278 -> 11 -> 26 -> 4 -> 19 -> 60 -> 125 -> 40 -> 117 -> 158 -> 206 -> 65 -> 105 -> 203 -> 205 -> 193 -> 287 -> 31 -> 8 -> 139 -> 17 -> 74 -> 93 -> 174 -> 110 -> 283 -> 56 -> 76 -> 35 -> 95 -> 112 -> 120 -> 85 -> 219 -> 272 -> 267 -> 144 -> 16 -> 131 -> 6 -> 210 -> 180 -> 273 -> 89 -> 57 -> 148 -> 167 -> 244 -> 109 -> 142 -> 173 -> 285 -> 288 -> 175 -> 231 -> 289 -> 5 -> 132 -> 233 -> 127 -> 71 -> 62 -> 251 -> 226 -> 198 -> 43 -> 230 -> 119 -> 36 -> 106 -> 292 -> 72 -> 126 -> 238 -> 216 -> 254 -> 146 -> 274 -> 2 -> 123 -> 48 -> 133 -> 68 -> 86 -> 190 -> 195 -> 100 -> 166 -> 64 -> 20 -> 102 -> 290 -> 235 -> 179 -> 70 -> 227 -> 264 -> 69 -> 199 -> 9 -> 21 -> 140 -> 34 -> 209 -> 246 -> 298 -> 228 -> 255 -> 98 -> 1 -> 247 -> 191 -> 137 -> 263 -> 32 -> 116 -> 200 -> 33 -> 220 -> 178 -> 80 -> 147 -> 277 -> 61 -> 225 -> 52 -> 15 -> 181 -> 266 -> 121 -> 30 -> 294 -> 22 -> 232 -> 182 -> 177 -> 66 -> 237 -> 222 -> 84 -> 18 -> 243 -> 185 -> 75 -> 201 -> 214 -> 113 -> 215 -> 152 -> 282 -> 38 -> 111 -> 157 -> 262 -> 101 -> 58 -> 234 -> 286 -> 296 -> 27 -> 281 -> 29 -> 265 -> 55 -> 136 -> 176 -> 124 -> 50 -> 168 -> 271 -> 257 -> 134 -> 160 -> 108 -> 88 -> 188 -> 138 -> 165 -> 155 -> 248 -> 143 -> 245 -> 275 -> 54 -> 256 -> 260 -> 42 -> 154 -> 217 -> 28 -> 171 -> 130 -> 104 -> 79 -> 240 -> 63 -> 239 -> 59 -> 53 -> 41 -> 293 -> 0 -> 258 -> 196 -> 46 -> 118 -> 25 -> 149 -> 91
52. 21022.527489332155, 0.005, 3832, 48 -> 162 -> 276 -> 70 -> 233 -> 238 -> 148 -> 159 -> 166 -> 27 -> 128 -> 1 -> 296 -> 16 -> 173 -> 83 -> 65 -> 63 -> 268 -> 77 -> 207 -> 85 -> 253 -> 274 -> 200 -> 36 -> 96 -> 284 -> 294 -> 183 -> 164 -> 217 -> 22 -> 122 -> 140 -> 185 -> 237 -> 172 -> 106 -> 181 -> 72 -> 84 -> 53 -> 147 -> 211 -> 215 -> 227 -> 187 -> 33 -> 62 -> 51 -> 102 -> 41 -> 66 -> 184 -> 60 -> 9 -> 263 -> 216 -> 57 -> 256 -> 228 -> 270 -> 169 -> 97 -> 3 -> 158 -> 250 -> 212 -> 117 -> 112 -> 136 -> 113 -> 94 -> 107 -> 205 -> 111 -> 251 -> 267 -> 152 -> 81 -> 157 -> 264 -> 64 -> 82 -> 190 -> 46 -> 252 -> 182 -> 56 -> 149 -> 272 -> 5 -> 279 -> 15 -> 293 -> 131 -> 242 -> 99 -> 192 -> 277 -> 49 -> 67 -> 288 -> 278 -> 156 -> 247 -> 287 -> 293 -> 139 -> 202 -> 115 -> 29 -> 198 -> 30 -> 193 -> 93 -> 259 -> 119 -> 50 -> 248 -> 176 -> 114 -> 17 -> 126 -> 103 -> 170 -> 257 -> 210 -> 261 -> 281 -> 165 -> 110 -> 220 -> 280 -> 90 -> 137 -> 138 -> 116 -> 32 -> 265 -> 219 -> 241 -> 204 -> 225 -> 177 -> 78 -> 45 -> 28 -> 23 -> 196 -> 118 -> 299 -> 76 -> 245 -> 146 -> 255 -> 243 -> 206 -> 292 -> 19 -> 87 -> 12 -> 130 -> 240 -> 129 -> 197 -> 168 -> 209 -> 132 -> 290 -> 199 -> 180 -> 71 -> 144 -> 100 -> 25 -> 178 -> 262 -> 91 -> 101 -> 239 -> 13 -> 55 -> 73 -> 31 -> 21 -> 38 -> 40 -> 92 -> 95 -> 104 -> 260 -> 194 -> 244 -> 171 -> 133 -> 161 -> 191 -> 234 -> 186 -> 108 -> 4 -> 6 -> 59 -> 151 -> 105 -> 269 -> 24 -> 236 -> 155 -> 163 -> 47 -> 174 -> 68 -> 80 -> 123 -> 39 -> 124 -> 297 -> 213 -> 134 -> 88 -> 121 -> 79 -> 224 -> 26 -> 226 -> 229 -> 43 -> 35 -> 42 -> 203 -> 235 -> 120 -> 44 -> 37 -> 69 -> 275 -> 75 -> 153 -> 98 -> 86 -> 7 -> 208 -> 222 -> 195 -> 271 -> 74 -> 167 -> 125 -> 2 -> 246 -> 89 -> 34 -> 285 -> 249 -> 258 -> 20 -> 11 -> 201 -> 291 -> 8 -> 58 -> 154 -> 273 -> 289 -> 221 -> 230 -> 266 -> 14 -> 52 -> 141 -> 109 -> 175 -> 189 -> 142 -> 18 -> 143 -> 179 -> 283 -> 188 -> 10 -> 160 -> 150 -> 127 -> 298 -> 254 -> 214 -> 286 -> 145 -> 295 -> 61 -> 231 -> 135 -> 218 -> 0 -> 282 -> 232 -> 54 -> 48
53. 27703.248211768343, 0.006, 3832, 213 -> 57 -> 149 -> 97 -> 16 -> 173 -> 112 -> 178 -> 285 -> 43 -> 206 -> 5 -> 191 -> 205 -> 216 -> 189 -> 176 -> 18 -> 34 -> 243 -> 175 -> 204 -> 166 -> 156 -> 30 -> 67 -> 238 -> 55 -> 96 -> 104 -> 20 -> 260 -> 51 -> 278 -> 35 -> 144 -> 91 -> 256 -> 129 -> 142 -> 229 -> 33 -> 221 -> 59 -> 196 -> 299 -> 186 -> 289 -> 258 -> 17 -> 53 -> 4 -> 217 -> 11 -> 15 -> 7 -> 215 -> 248 -> 29 -> 88 -> 131 -> 142 -> 249 -> 61 -> 0 -> 82 -> 295 -> 116 -> 74 -> 198 -> 264 -> 181 -> 233 -> 199 -> 69 -> 165 -> 224 -> 171 -> 161 -> 288 -> 39 -> 105 -> 77 -> 185 -> 42 -> 121 -> 98 -> 177 -> 152 -> 81 -> 140 -> 111 -> 275 -> 71 -> 155 -> 123 -> 9 -> 241 -> 148 -> 135 -> 167

- > 223 -> 197 -> 237 -> 271 -> 244 -> 31 -> 93 -> 151 -> 110 -> 163 -> 242 -> 298 -> 120 -> 127 -> 45 -> 291 -> 64 -> 109 -> 220 -> 132 -> 194 -> 118 -> 6 -> 268 -> 14 -> 284 -> 147 -> 225 -> 162 -> 283 -> 13 -> 25 -> 54 -> 36 -> 281 -> 202 -> 272 -> 100 -> 239 -> 141 -> 12 -> 65 -> 287 -> 78 -> 38 -> 117 -> 125 -> 259 -> 27 -> 26 -> 1 -> 203 -> 218 -> 219 -> 187 -> 154 -> 158 -> 72 -> 107 -> 99 -> 247 -> 255 -> 70 -> 180 -> 266 -> 277 -> 193 -> 143 -> 80 -> 114 -> 124 -> 94 -> 115 -> 46 -> 21 -> 145 -> 172 -> 76 -> 179 -> 24 -> 182 -> 75 -> 279 -> 270 -> 47 -> 286 -> 130 -> 228 -> 89 -> 128 -> 201 -> 126 -> 87 -> 210 -> 157 -> 40 -> 280 -> 52 -> 265 -> 200 -> 119 -> 3 -> 170 -> 10 -> 73 -> 195 -> 192 -> 276 -> 214 -> 211 -> 246 -> 146 -> 290 -> 56 -> 267 -> 296 -> 134 -> 188 -> 22 -> 103 -> 101 -> 222 -> 8 -> 122 -> 254 -> 133 -> 136 -> 106 -> 108 -> 85 -> 294 -> 44 -> 234 -> 113 -> 257 -> 183 -> 32 -> 150 -> 169 -> 261 -> 159 -> 226 -> 90 -> 63 -> 236 -> 230 -> 292 -> 293 -> 269 -> 251 -> 137 -> 253 -> 282 -> 208 -> 263 -> 273 -> 160 -> 164 -> 48 -> 2 -> 79 -> 231 -> 168 -> 68 -> 60 -> 66 -> 207 -> 232 -> 212 -> 92 -> 102 -> 184 -> 190 -> 58 -> 49 -> 250 -> 240 -> 84 -> 28 -> 86 -> 41 -> 235 -> 83 -> 139 -> 23 -> 37 -> 95 -> 274 -> 153 -> 50 -> 252 -> 262 -> 174 -> 245 -> 227 -> 297 -> 19 -> 209 -> 138 -> 213
54. 21120.854663178303, 0.005, 3832, 278 -> 138 -> 206 -> 129 -> 274 -> 26 -> 110 -> 153 -> 82 -> 97 -> 178 -> 250 -> 258 -> 225 -> 23 -> 94 -> 51 -> 146 -> 205 -> 141 -> 31 -> 267 -> 86 -> 295 -> 135 -> 1 -> 53 -> 200 -> 46 -> 136 -> 45 -> 297 -> 144 -> 213 -> 106 -> 268 -> 128 -> 59 -> 62 -> 111 -> 0 -> 134 -> 188 -> 108 -> 227 -> 152 -> 185 -> 158 -> 230 -> 25 -> 167 -> 218 -> 207 -> 52 -> 79 -> 249 -> 193 -> 296 -> 276 -> 49 -> 229 -> 80 -> 266 -> 202 -> 245 -> 244 -> 56 -> 10 -> 220 -> 2 -> 277 -> 93 -> 179 -> 34 -> 4 -> 121 -> 273 -> 181 -> 143 -> 165 -> 294 -> 95 -> 151 -> 124 -> 264 -> 221 -> 32 -> 119 -> 89 -> 90 -> 104 -> 290 -> 35 -> 20 -> 253 -> 160 -> 116 -> 105 -> 6 -> 169 -> 91 -> 248 -> 191 -> 76 -> 239 -> 67 -> 157 -> 287 -> 171 -> 16 -> 174 -> 44 -> 238 -> 208 -> 204 -> 13 -> 8 -> 7 -> 150 -> 120 -> 282 -> 233 -> 123 -> 131 -> 125 -> 298 -> 161 -> 100 -> 286 -> 19 -> 70 -> 231 -> 145 -> 55 -> 198 -> 137 -> 197 -> 261 -> 84 -> 234 -> 162 -> 47 -> 172 -> 211 -> 163 -> 289 -> 122 -> 24 -> 99 -> 262 -> 9 -> 246 -> 112 -> 88 -> 155 -> 72 -> 293 -> 241 -> 127 -> 14 -> 270 -> 222 -> 66 -> 212 -> 187 -> 132 -> 33 -> 101 -> 280 -> 216 -> 215 -> 81 -> 43 -> 61 -> 148 -> 292 -> 139 -> 260 -> 74 -> 203 -> 40 -> 37 -> 41 -> 130 -> 126 -> 257 -> 255 -> 242 -> 87 -> 133 -> 236 -> 288 -> 21 -> 58 -> 254 -> 180 -> 196 -> 232 -> 186 -> 115 -> 201 -> 27 -> 279 -> 57 -> 64 -> 199 -> 30 -> 299 -> 29 -> 96 -> 92 -> 166 -> 194 -> 11 -> 285 -> 228 -> 210 -> 252 -> 177 -> 283 -> 195 -> 15 -> 22 -> 63 -> 39 -> 271 -> 73 -> 240 -> 251 -> 54 -> 159 -> 83 -> 60 -> 118 -> 243 -> 256 -> 113 -> 117 -> 275 -> 156 -> 168 -> 48 -> 85 -> 147 -> 42 -> 272 -> 247 -> 103 -> 17 -> 28 -> 224 -> 50 -> 184 -> 190 -> 5 -> 78 -> 291 -> 142 -> 173 -> 154 -> 217 -> 98 -> 223 -> 176 -> 265 -> 192 -> 281 -> 109 -> 69 -> 71 -> 175 -> 38 -> 226 -> 75 -> 219 -> 259 -> 170 -> 102 -> 183 -> 149 -> 114 -> 77 -> 3 -> 284 -> 263 -> 107 -> 214 -> 140 -> 36 -> 189 -> 164 -> 68 -> 18 -> 65 -> 269 -> 182 -> 209 -> 12 -> 235 -> 237 -> 278
55. 27944.839242481306, 0.005, 3832, 130 -> 80 -> 26 -> 74 -> 182 -> 234 -> 221 -> 31 -> 276 -> 278 -> 275 -> 52 -> 46 -> 118 -> 41 -> 3 -> 115 -> 79 -> 244 -> 88 -> 44 -> 22 -> 248 -> 228 -> 133 -> 37 -> 119 -> 185 -> 127 -> 271 -> 163 -> 21 -> 230 -> 176 -> 16 -> 187 -> 196 -> 5 -> 125 -> 206 -> 29 -> 42 -> 90 -> 144 -> 82 -> 204 -> 136 -> 39 -> 49 -> 249 -> 193 -> 210 -> 50 -> 47 -> 67 -> 190 -> 279 -> 277 -> 142 -> 269 -> 87 -> 186 -> 172 -> 59 -> 250 -> 107 -> 194 -> 242 -> 111 -> 295 -> 93 -> 262 -> 65 -> 135 -> 75 -> 149 -> 112 -> 60 -> 35 -> 165 -> 73 -> 103 -> 126 -> 137 -> 20 -> 76 -> 63 -> 43 -> 297 -> 34 -> 219 -> 243 -> 6 -> 94 -> 253 -> 106 -> 129 -> 284 -> 226 -> 258 -> 30 -> 77 -> 272 -> 191 -> 102 -> 209 -> 92 -> 28 -> 143 -> 68 -> 246 -> 32 -> 259 -> 254 -> 108 -> 36 -> 256 -> 122 -> 290 -> 105 -> 53 -> 69 -> 61 -> 89 -> 156 -> 199 -> 9 -> 198 -> 148 -> 117 -> 168 -> 64 -> 169 -> 220 -> 86 -> 181 -> 224 -> 267 -> 158 -> 160 -> 197 -> 288 -> 266 -> 12 -> 57 -> 263 -> 173 -> 296 -> 207 -> 245 -> 214 -> 83 -> 213 -> 154 -> 97 -> 239 -> 268 -> 58 -> 151 -> 56 -> 281 -> 132 -> 202 -> 235 -> 274 -> 294 -> 162 -> 120 -> 100 -> 121 -> 179 -> 24 -> 200 -> 188 -> 273 -> 166 -> 282 -> 81 -> 134 -> 177 -> 189 -> 157 -> 236 -> 293 -> 184 -> 183 -> 78 -> 238 -> 51 -> 174 -> 27 -> 292 -> 145 -> 170 -> 159 -> 66 -> 0 -> 247 -> 19 -> 141 -> 17 -> 48 -> 216 -> 232 -> 252 -> 113 -> 260 -> 14 -> 257 -> 62 -> 241 -> 138 -> 33 -> 264 -> 286 -> 285 -> 4 -> 38 -> 225 -> 283 -> 15 -> 240 -> 180 -> 155 -> 270 -> 101 -> 71 -> 178 -> 18 -> 217 -> 10 -> 222 -> 109 -> 175 -> 54 -> 139 -> 237 -> 131 -> 55 -> 2 -> 8 -> 150 -> 96 -> 99 -> 211 -> 152 -> 13 -> 95 -> 233 -> 84 -> 195 -> 171 -> 167 -> 192 -> 203 -> 124 -> 123 -> 7 -> 164 -> 91 -> 116 -> 25 -> 298 -> 201 -> 265 -> 146 -> 23 -> 223 -> 11 -> 291 -> 227 -> 289 -> 208 -> 45 -> 110 -> 140 -> 147 -> 231 -> 128 -> 70 -> 153 -> 104 -> 114 -> 261 -> 212 -> 287 -> 1 -> 215 -> 72 -> 161 -> 40 -> 255 -> 85 -> 205 -> 280 -> 251 -> 229 -> 218 -> 299 -> 98 -> 130
56. 21164.569824051297, 0.005, 3832, 227 -> 144 -> 84 -> 102 -> 45 -> 6 -> 259 -> 244 -> 176 -> 2 -> 127 -> 234 -> 19 -> 14 -> 281 -> 68 -> 79 -> 166 -> 58 -> 49 -> 160 -> 167 -> 181 -> 226 -> 216 -> 41 -> 155 -> 123 -> 271 -> 238 -> 220 -> 147 -> 33 -> 209 -> 140 -> 193 -> 17 -> 202 -> 106 -> 40 -> 197 -> 150 -> 213 -> 117 -> 195 -> 163 -> 219 -> 85 -> 43 -> 110 -> 191 -> 111 -> 291 -> 9 -> 46 -> 56 -> 91 -> 92 -> 223 -> 135 -> 203 -> 251 -> 35 -> 161 -> 26 -> 107 -> 141 -> 113 -> 24 -> 240 -> 169 -> 254 -> 211 -> 99 -> 129 -> 175 -> 230 -> 134 -> 122 -> 119 -> 287 -> 233 -> 221 -> 50 -> 295 -> 292 -> 173 -> 132 -> 143 -> 77 -> 54 -> 208 -> 115 -> 149 -> 1 -> 96 -> 272 -> 4 -> 89 -> 270 -> 275 -> 207 -> 103 -> 188 -> 105 -> 172 -> 76 -> 108 -> 158 -> 218 -> 94 -> 128 -> 241 -> 214 -> 261 -> 224 -> 269 -> 30 -> 29 -> 70 -> 125 -> 262 -> 131 -> 53 -> 263 -> 279 -> 156 -> 7 -> 3 -> 59 -> 22 -> 274 -> 130 -> 236 -> 273 -> 206 -> 57 -> 242 -> 34 -> 276 -> 177 -> 126 -> 15 -> 153 -> 268 -> 146 -> 139 -> 148 -> 118 -> 109 -> 222 -> 121 -> 25 -> 187 -> 42 -> 87 -> 286 -> 83 -> 182 -> 51 -> 136 -> 252 -> 93 -> 86 -> 142 -> 66 -> 12 -> 75 -> 228 -> 170 -> 97 -> 90 -> 204 -> 48 -> 82 -> 67 -> 278 -> 23 -> 282 -> 184 -> 296 -> 249 -> 289 -> 88 -> 264 -> 186 -> 52 -> 165 -> 212 -> 239 -> 294 -> 283 -> 104 -> 183 -> 256 -> 198 -> 247 -> 137 -> 61 -> 185 -> 65 -> 290 -> 231 -> 71 -> 62 -> 164 -> 285 -> 205 -> 192 -> 180 -> 114 -> 299 -> 229 -> 194 -> 168 -> 145 -> 235 -> 178 -> 288 -> 80 -> 37 -> 171 -> 124 -> 10 -> 266 -> 47 -> 138 -> 133 -> 20 -> 16 -> 60 -> 73 -> 72 -> 74 -> 98 -> 196 -> 257 -> 237 -> 78 -> 253 -> 246 -> 5 -> 32 -> 100 -> 260 -> 159 -> 39 -> 277 -> 64 -> 200 -> 101 -> 28 -> 250 -> 69 -> 245 -> 258 -> 8 -> 210 -> 157 -> 18 -> 297 -> 284 -> 189 -> 31 -> 265 -> 179 -> 298 -> 154 -> 95 -> 0 -> 255 -> 55 -> 199 -> 225 -> 11 -> 152 -> 293 -> 112 -> 248 -> 280 -> 21 -> 81 -> 120 -> 174 -> 201 -> 63 -> 36 -> 217 -> 151 -> 215 -> 267 -> 243 -> 13 -> 44 -> 38 -> 190 -> 116 -> 27 -> 162 -> 232 -> 227
57. 27282.925327465462, 0.008, 3832, 64 -> 256 -> 118 -> 97 -> 161 -> 6 -> 14 -> 73 -> 274 -> 131 -> 84 -> 160 -> 228 -> 248 -> 262 -> 264 -> 206 -> 205 -> 285 -> 222 -> 21 -> 288 -> 144 -> 58 -> 135 -> 57 -> 272 -> 120 -> 273 -> 181 -> 155 -> 85 -> 253 -> 211 -> 149 -> 280 -> 55 -> 202 -> 9 -> 277 -> 249 -> 200 -> 43 -> 162 -> 37 -> 180 -> 108 -> 221 -> 4 -> 177 -> 51 -> 219 -> 182 -> 66 -> 208 -> 244 -> 299 -> 132 -> 59 -> 242 -> 172 -> 105 -> 27 -> 157 -> 210 -> 67 -> 10 -> 17 -> 130 -> 252 -> 190 -> 87 -> 34 -> 203 -> 49 -> 1 -> 154 -> 270 -> 46 -> 127 -> 47 -> 265 -> 103 -> 11 -> 297 -> 260 -> 75 -> 283 -> 56 -> 247 -> 95 -> 215 -> 112 -> 176 -> 169 -> 171 -> 255 -> 104 -> 134 -> 109 -> 128 -> 72 -> 234 -> 235 -> 94 -> 148 -> 117 -> 53 -> 39 -> 188 -> 281 -> 83 -> 111 -> 199 -> 96 -> 239 -> 296 -> 212 -> 44 -> 173 -> 86 -> 147 -> 78 -> 183 -> 24 -> 290 -> 269 -> 163 -> 124 -> 80 -> 82 -> 133 -> 153 -> 74 -> 231 -> 88 -> 166 -> 99 -> 254 -> 91 -> 195 -> 241 -> 233 -> 223 -> 230 -> 125 -> 16 -> 121 -> 220 -> 275 -> 13 -> 284 -> 107 -> 279 -> 70 -> 3 -> 32 -> 156 -> 259 -> 48 -> 2 -> 35 -> 159 -> 30 -> 286 -> 65 -> 26 -> 140 -> 150 -> 115 -> 267 -> 60 -> 201 -> 174 -> 5 -> 266 -> 31 -> 236 -> 238 -> 138 -> 257 -> 101 -> 193 -> 184 -> 77 -> 178 -> 246 -> 18 -> 102 -> 187 -> 69 -> 167 -> 61 -> 93 -> 294 -> 168 -> 197 -> 19 -> 62 -> 152 -> 106 -> 224 -> 81 -> 122 -> 68 -> 137 -> 278 -> 8 -> 209 -> 243 -> 113 -> 225 -> 89 -> 292 -> 28 -> 123 -> 12 -> 139 -> 25 -> 42 -> 192 -> 213 -> 50 -> 217 -> 226 -> 245 -> 145 -> 251 -> 151 -> 33 -> 175 -> 36 -> 229 -> 136 -> 54 -> 227 -> 237 -> 142 -> 207 -> 240 -> 20 -> 276 -> 129 -> 179 -> 52 -> 298 -> 261 -> 116 -> 100 -> 250 -> 79 -> 196 -> 41 -> 185 -> 282 -> 186 -> 76 -> 45 -> 29 -> 15 -> 38 -> 71 -> 141 -> 119 -> 191 -> 214 -> 158 -> 268 -> 90 -> 40 -> 271 -> 126 -> 146 -> 289 -> 258 -> 22 -> 295 -> 216 -> 63 -> 7 -> 170 -> 263 -> 143 -> 110 -> 98 -> 232 -> 287 -> 293 -> 0 -> 114 -> 204 -> 23 -> 198 -> 164 -> 194 -> 291 -> 92 -> 189 -> 218 -> 165 -> 64

58. 21738.190042968796, 0.005, 3832, 70 -> 30 -> 250 -> 213 -> 92 -> 53 -> 68 -> 220 -> 83 -> 51 -> 153 -> 0 -> 99 -> 173 -> 161 -> 230 -> 265 -> 136 -> 281 -> 58 -> 94 -> 168 -> 258 -> 175 -> 178 -> 129 -> 113 -> 47 -> 170 -> 98 -> 49 -> 217 -> 259 -> 212 -> 223 -> 288 -> 37 -> 292 -> 127 -> 171 -> 249 -> 131 -> 186 -> 80 -> 95 -> 278 -> 244 -> 34 -> 93 -> 133 -> 41 -> 85 -> 202 -> 226 -> 59 -> 8 -> 192 -> 193 -> 155 -> 254 -> 62 -> 279 -> 6 -> 270 -> 112 -> 252 -> 189 -> 297 -> 66 -> 215 -> 40 -> 159 -> 105 -> 119 -> 235 -> 163 -> 120 -> 219 -> 263 -> 239 -> 285 -> 35 -> 185 -> 137 -> 237 -> 221 -> 154 -> 201 -> 277 -> 241 -> 100 -> 16 -> 272 -> 236 -> 125 -> 199 -> 194 -> 273 -> 151 -> 266 -> 205 -> 69 -> 132 -> 74 -> 280 -> 64 -> 33 -> 81 -> 117 -> 39 -> 190 -> 187 -> 260 -> 253 -> 203 -> 27 -> 91 -> 140 -> 67 -> 207 -> 122 -> 144 -> 43 -> 299 -> 290 -> 267 -> 179 -> 79 -> 103 -> 232 -> 77 -> 17 -> 9 -> 160 -> 167 -> 141 -> 45 -> 135 -> 102 -> 19 -> 238 -> 180 -> 274 -> 204 -> 109 -> 150 -> 195 -> 172 -> 176 -> 128 -> 166 -> 152 -> 149 -> 26 -> 209 -> 294 -> 110 -> 162 -> 295 -> 197 -> 2 -> 124 -> 156 -> 142 -> 143 -> 126 -> 184 -> 257 -> 116 -> 157 -> 65 -> 97 -> 61 -> 206 -> 104 -> 268 -> 28 -> 177 -> 188 -> 229 -> 218 -> 240 -> 251 -> 225 -> 5 -> 48 -> 242 -> 164 -> 118 -> 158 -> 24 -> 256 -> 196 -> 55 -> 52 -> 3 -> 15 -> 21 -> 73 -> 20 -> 7 -> 12 -> 216 -> 130 -> 78 -> 32 -> 245 -> 269 -> 276 -> 247 -> 106 -> 147 -> 139 -> 264 -> 214 -> 227 -> 101 -> 96 -> 87 -> 29 -> 243 -> 262 -> 282 -> 181 -> 86 -> 183 -> 289 -> 222 -> 60 -> 50 -> 293 -> 114 -> 138 -> 75 -> 71 -> 14 -> 286 -> 13 -> 174 -> 145 -> 82 -> 54 -> 169 -> 284 -> 44 -> 233 -> 291 -> 10 -> 255 -> 231 -> 38 -> 191 -> 298 -> 248 -> 22 -> 224 -> 46 -> 148 -> 182 -> 146 -> 31 -> 234 -> 271 -> 76 -> 275 -> 88 -> 283 -> 211 -> 63 -> 198 -> 18 -> 42 -> 107 -> 108 -> 56 -> 208 -> 4 -> 90 -> 123 -> 228 -> 296 -> 36 -> 261 -> 121 -> 200 -> 23 -> 246 -> 134 -> 57 -> 210 -> 1 -> 145 -> 287 -> 111 -> 89 -> 72 -> 115 -> 11 -> 25 -> 70
59. 27953.689279132625, 0.005, 3832, 237 -> 12 -> 271 -> 170 -> 89 -> 222 -> 256 -> 173 -> 265 -> 101 -> 59 -> 77 -> 209 -> 97 -> 150 -> 158 -> 182 -> 43 -> 54 -> 211 -> 75 -> 163 -> 258 -> 126 -> 160 -> 255 -> 128 -> 232 -> 98 -> 251 -> 174 -> 41 -> 53 -> 289 -> 280 -> 247 -> 73 -> 125 -> 2 -> 139 -> 92 -> 24 -> 179 -> 137 -> 44 -> 86 -> 46 -> 6 -> 144 -> 82 -> 260 -> 195 -> 83 -> 263 -> 283 -> 64 -> 133 -> 149 -> 242 -> 60 -> 117 -> 78 -> 72 -> 231 -> 197 -> 198 -> 221 -> 22 -> 291 -> 134 -> 272 -> 80 -> 135 -> 241 -> 10 -> 186 -> 21 -> 146 -> 47 -> 154 -> 276 -> 286 -> 225 -> 96 -> 23 -> 42 -> 194 -> 114 -> 196 -> 287 -> 155 -> 100 -> 93 -> 269 -> 132 -> 57 -> 76 -> 200 -> 123 -> 81 -> 207 -> 68 -> 65 -> 151 -> 99 -> 167 -> 51 -> 250 -> 8 -> 13 -> 285 -> 39 -> 143 -> 18 -> 206 -> 223 -> 159 -> 17 -> 266 -> 70 -> 67 -> 264 -> 30 -> 31 -> 234 -> 121 -> 169 -> 56 -> 110 -> 259 -> 35 -> 267 -> 142 -> 235 -> 236 -> 20 -> 141 -> 138 -> 124 -> 257 -> 33 -> 84 -> 275 -> 119 -> 153 -> 299 -> 229 -> 14 -> 34 -> 240 -> 107 -> 38 -> 157 -> 248 -> 16 -> 296 -> 66 -> 204 -> 7 -> 129 -> 5 -> 109 -> 162 -> 156 -> 193 -> 1 -> 145 -> 208 -> 270 -> 131 -> 140 -> 244 -> 292 -> 15 -> 220 -> 32 -> 249 -> 40 -> 210 -> 188 -> 178 -> 273 -> 238 -> 104 -> 69 -> 50 -> 185 -> 62 -> 175 -> 288 -> 71 -> 112 -> 290 -> 203 -> 79 -> 191 -> 116 -> 216 -> 199 -> 239 -> 88 -> 187 -> 105 -> 0 -> 205 -> 122 -> 297 -> 253 -> 177 -> 37 -> 111 -> 201 -> 202 -> 127 -> 130 -> 274 -> 55 -> 95 -> 183 -> 212 -> 227 -> 136 -> 115 -> 295 -> 172 -> 164 -> 180 -> 245 -> 184 -> 74 -> 215 -> 268 -> 219 -> 25 -> 152 -> 87 -> 254 -> 9 -> 52 -> 278 -> 29 -> 63 -> 293 -> 3 -> 58 -> 61 -> 28 -> 45 -> 26 -> 108 -> 226 -> 94 -> 233 -> 217 -> 90 -> 190 -> 181 -> 213 -> 228 -> 192 -> 120 -> 262 -> 281 -> 189 -> 91 -> 168 -> 36 -> 19 -> 224 -> 102 -> 166 -> 27 -> 48 -> 218 -> 243 -> 103 -> 49 -> 11 -> 171 -> 298 -> 282 -> 4 -> 148 -> 284 -> 214 -> 113 -> 85 -> 252 -> 279 -> 230 -> 147 -> 277 -> 261 -> 294 -> 176 -> 165 -> 106 -> 246 -> 161 -> 118 -> 237
60. 20909.94928899058, 0.004, 3832, 7 -> 2 -> 186 -> 172 -> 274 -> 232 -> 17 -> 157 -> 223 -> 235 -> 218 -> 200 -> 46 -> 81 -> 208 -> 158 -> 242 -> 246 -> 213 -> 202 -> 68 -> 170 -> 192 -> 77 -> 15 -> 65 -> 117 -> 28 -> 209 -> 85 -> 173 -> 161 -> 33 -> 297 -> 101 -> 94 -> 214 -> 275 -> 10 -> 148 -> 11 -> 42 -> 226 -> 128 -> 98 -> 292 -> 8 -> 87 -> 230 -> 5 -> 240 -> 177 -> 119 -> 69 -> 247 -> 258 -> 109 -> 178 -> 18 -> 40 -> 107 -> 159 -> 16 -> 122 -> 272 -> 179 -> 91 -> 162 -> 37 -> 190 -> 201 -> 66 -> 125 -> 135 -> 100 -> 141 -> 237 -> 253 -> 126 -> 63 -> 12 -> 6 -> 20 -> 56 -> 150 -> 121 -> 73 -> 256 -> 279 -> 171 -> 130 -> 295 -> 227 -> 154 -> 62 -> 96 -> 21 -> 251 -> 92 -> 143 -> 48 -> 137 -> 263 -> 104 -> 97 -> 259 -> 155 -> 53 -> 55 -> 78 -> 176 -> 1 -> 74 -> 47 -> 32 -> 210 -> 276 -> 164 -> 188 -> 3 -> 52 -> 49 -> 22 -> 233 -> 75 -> 29 -> 105 -> 206 -> 160 -> 123 -> 134 -> 76 -> 23 -> 138 -> 41 -> 9 -> 261 -> 35 -> 281 -> 153 -> 239 -> 252 -> 44 -> 265 -> 270 -> 290 -> 31 -> 152 -> 255 -> 84 -> 54 -> 25 -> 288 -> 182 -> 257 -> 180 -> 181 -> 238 -> 191 -> 95 -> 14 -> 269 -> 45 -> 221 -> 260 -> 88 -> 291 -> 24 -> 99 -> 195 -> 167 -> 43 -> 58 -> 229 -> 0 -> 86 -> 124 -> 90 -> 262 -> 67 -> 236 -> 225 -> 266 -> 64 -> 80 -> 204 -> 284 -> 205 -> 285 -> 215 -> 36 -> 228 -> 146 -> 60 -> 140 -> 133 -> 189 -> 222 -> 245 -> 30 -> 26 -> 118 -> 203 -> 267 -> 250 -> 156 -> 224 -> 243 -> 286 -> 277 -> 187 -> 199 -> 241 -> 175 -> 278 -> 217 -> 216 -> 198 -> 287 -> 220 -> 93 -> 183 -> 163 -> 106 -> 298 -> 194 -> 169 -> 115 -> 184 -> 144 -> 197 -> 136 -> 111 -> 234 -> 116 -> 283 -> 89 -> 268 -> 19 -> 271 -> 131 -> 114 -> 212 -> 168 -> 79 -> 264 -> 185 -> 166 -> 71 -> 211 -> 196 -> 70 -> 293 -> 34 -> 50 -> 294 -> 248 -> 193 -> 282 -> 38 -> 149 -> 296 -> 231 -> 103 -> 120 -> 244 -> 273 -> 57 -> 145 -> 4 -> 219 -> 139 -> 207 -> 151 -> 129 -> 59 -> 108 -> 249 -> 299 -> 83 -> 174 -> 113 -> 61 -> 254 -> 289 -> 110 -> 147 -> 165 -> 102 -> 13 -> 82 -> 132 -> 51 -> 280 -> 112 -> 39 -> 127 -> 72 -> 27 -> 142 -> 7
61. 38148.61134650618, 0.007, 3832, 93 -> 6 -> 99 -> 146 -> 54 -> 184 -> 144 -> 192 -> 187 -> 292 -> 55 -> 112 -> 111 -> 386 -> 355 -> 134 -> 30 -> 13 -> 363 -> 284 -> 215 -> 387 -> 312 -> 229 -> 81 -> 324 -> 397 -> 390 -> 374 -> 178 -> 28 -> 287 -> 384 -> 35 -> 276 -> 235 -> 199 -> 172 -> 273 -> 80 -> 57 -> 348 -> 270 -> 283 -> 63 -> 123 -> 220 -> 251 -> 130 -> 343 -> 247 -> 253 -> 256 -> 298 -> 249 -> 227 -> 289 -> 74 -> 113 -> 224 -> 98 -> 257 -> 200 -> 349 -> 337 -> 181 -> 218 -> 322 -> 166 -> 8 -> 46 -> 205 -> 59 -> 245 -> 72 -> 148 -> 159 -> 344 -> 116 -> 104 -> 20 -> 82 -> 306 -> 309 -> 106 -> 293 -> 152 -> 103 -> 260 -> 325 -> 228 -> 162 -> 194 -> 250 -> 354 -> 237 -> 392 -> 198 -> 340 -> 368 -> 129 -> 282 -> 3 -> 329 -> 222 -> 202 -> 107 -> 183 -> 150 -> 118 -> 395 -> 60 -> 190 -> 44 -> 56 -> 295 -> 219 -> 338 -> 315 -> 235 -> 238 -> 143 -> 311 -> 69 -> 242 -> 330 -> 261 -> 128 -> 234 -> 209 -> 97 -> 294 -> 236 -> 21 -> 25 -> 36 -> 353 -> 66 -> 108 -> 53 -> 214 -> 142 -> 96 -> 232 -> 314 -> 176 -> 5 -> 100 -> 259 -> 196 -> 29 -> 75 -> 147 -> 398 -> 32 -> 321 -> 310 -> 230 -> 188 -> 371 -> 226 -> 67 -> 272 -> 77 -> 58 -> 157 -> 2 -> 269 -> 208 -> 352 -> 304 -> 365 -> 87 -> 286 -> 158 -> 264 -> 361 -> 336 -> 119 -> 360 -> 154 -> 362 -> 9 -> 136 -> 185 -> 378 -> 52 -> 246 -> 101 -> 133 -> 197 -> 385 -> 277 -> 271 -> 280 -> 182 -> 94 -> 1 -> 281 -> 23 -> 206 -> 174 -> 339 -> 328 -> 164 -> 42 -> 62 -> 168 -> 210 -> 258 -> 189 -> 10 -> 243 -> 396 -> 90 -> 266 -> 73 -> 297 -> 180 -> 39 -> 26 -> 124 -> 12 -> 48 -> 291 -> 17 -> 141 -> 333 -> 213 -> 131 -> 225 -> 211 -> 327 -> 139 -> 40 -> 51 -> 195 -> 223 -> 379 -> 318 -> 126 -> 61 -> 186 -> 4 -> 380 -> 241 -> 217 -> 356 -> 179 -> 138 -> 121 -> 290 -> 308 -> 383 -> 248 -> 359 -> 364 -> 110 -> 393 -> 221 -> 285 -> 305 -> 76 -> 167 -> 161 -> 163 -> 303 -> 117 -> 301 -> 288 -> 370 -> 275 -> 151 -> 14 -> 34 -> 18 -> 43 -> 15 -> 85 -> 170 -> 70 -> 351 -> 216 -> 78 -> 350 -> 388 -> 33 -> 313 -> 207 -> 263 -> 381 -> 345 -> 204 -> 279 -> 31 -> 7 -> 201 -> 347 -> 45 -> 125 -> 331 -> 89 -> 120 -> 137 -> 376 -> 177 -> 132 -> 49 -> 102 -> 155 -> 368 -> 391 -> 320 -> 332 -> 367 -> 109 -> 16 -> 278 -> 19 -> 65 -> 173 -> 341 -> 394 -> 240 -> 105 -> 24 -> 375 -> 317 -> 300 -> 156 -> 346 -> 358 -> 389 -> 165 -> 191 -> 79 -> 149 -> 86 -> 319 -> 369 -> 50 -> 239 -> 231 -> 373 -> 169 -> 135 -> 140 -> 153 -> 316 -> 145 -> 114 -> 38 -> 366 -> 95 -> 326 -> 262 -> 254 -> 37 -> 11 -> 115 -> 171 -> 377 -> 274 -> 22 -> 382 -> 299 -> 265 -> 323 -> 399 -> 68 -> 91 -> 92 -> 296 -> 88 -> 27 -> 244 -> 372 -> 334 -> 47 -> 127 -> 175 -> 193 -> 83 -> 203 -> 122 -> 71 -> 212 -> 233 -> 255 -> 252 -> 0 -> 267 -> 357 -> 342 -> 302 -> 41 -> 64 -> 307 -> 160 -> 84 -> 93
62. 29969.258325717605, 0.007, 3832, 322 -> 24 -> 184 -> 55 -> 297 -> 56 -> 25 -> 174 -> 387 -> 21 -> 300 -> 294 -> 168 -> 386 -> 95 -> 324 -> 284 -> 18 -> 110 -> 17 -> 377 -> 385 -> 360 -> 381 -> 370 -> 189 -> 355 -> 79 -> 311 -> 342 -> 383 -> 216 -> 351 -> 306 -> 356 -> 332 -> 128 -> 155 -> 39 -> 100 -> 301 -> 244 -> 242 -> 65 -> 315 -> 43 -> 226 -> 278 -> 187 -> 382 -> 252 -> 159 -> 266 -> 230 -> 299 -> 4 -> 376 -> 367 -> 338 -> 33 -> 202 -> 234 -> 295 -> 13 -> 36 -> 378 -> 148 -> 261 -> 218 -> 45 -> 176 -> 72 -> 330 -> 262 -> 170 -> 102 -> 220 -> 193 -> 172 -> 389 -> 225 -> 57 -> 157 -> 52 -> 85 -> 122 -> 282 -> 329 -> 119 -> 27 -> 243 -> 82 -> 108 -> 346 -> 188 -> 271 -> 14 ->

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64. 29557.02821168509, 0.007, 3832, 294 -> 8 -> 372 -> 315 -> 327 -> 76 -> 77 -> 148 -> 112 -> 157 -> 100 -> 91 -> 303 -> 215 -> 149 -> 212
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66. 29180.2959181424, 0.006, 3832, 367 -> 173 -> 260 -> 236 -> 178 -> 399 -> 133 -> 4 -> 318 -> 143 -> 55 -> 396 -> 227 -> 145 -> 38 -> 295
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67. 38078.84822291866, 0.008, 3832, 333 -> 133 -> 53 -> 308 -> 90 -> 108 -> 354 -> 88 -> 297 -> 20 -> 10 -> 159 -> 177 -> 119 -> 59 -> 338
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68. 29774.58946579646, 0.008, 3832, 42 -> 91 -> 67 -> 299 -> 94 -> 22 -> 245 -> 359 -> 205 -> 374 -> 297 -> 240 -> 90 -> 182 -> 264 -> 276
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69. 37618.30030252176, 0.007, 3832, 133 -> 36 -> 162 -> 184 -> 371 -> 136 -> 152 -> 190 -> 185 -> 106 -> 233 -> 373 -> 241 -> 359 -> 143
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70. 29826.818014856955, 0.006, 3832, 92 -> 239 -> 364 -> 124 -> 44 -> 318 -> 384 -> 89 -> 385 -> 379 -> 114 -> 201 -> 29 -> 6 -> 67 -> 141
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71. 57884.91126438822, 0.011, 3832, 79 -> 550 -> 220 -> 199 -> 137 -> 288 -> 124 -> 167 -> 227 -> 406 -> 353 -> 258 -> 96 -> 22 -> 309 ->
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72. 47633.210895586206, 0.014, 3832, 585 -> 77 -> 128 -> 308 -> 201 -> 26 -> 164 -> 553 -> 476 -> 254 -> 345 -> 227 -> 298 -> 237 -> 283
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73. 57628.96578670467, 0.015, 3832, 550 -> 384 -> 598 -> 403 -> 40 -> 154 -> 119 -> 144 -> 3 -> 447 -> 521 -> 390 -> 87 -> 478 -> 364 -> 262 -> 275 -> 27 -> 385 -> 1 -> 168 -> 298 -> 129 -> 156 -> 470 -> 370 -> 440 -> 541 -> 246 -> 429 -> 110 -> 20 -> 12 -> 123 -> 545 -> 441 -> 529 -> 13 -> 507 -> 319 -> 186 -> 26 -> 187 -> 142 -> 375 -> 99 -> 41 -> 398 -> 483 -> 299 -> 198 -> 146 -> 293 -> 558 -> 2 -> 122 -> 32 -> 374 -> 260 -> 394 -> 137 -> 286 -> 573 -> 500 -> 495 -> 409 -> 442 -> 11 -> 95 -> 155 -> 295 -> 356 -> 421 -> 248 -> 581 -> 376 -> 302 -> 329 -> 106 -> 62 -> 208 -> 6 -> 456 -> 274 -> 561 -> 488 -> 579 -> 448 -> 497 -> 460 -> 159 -> 369 -> 416 -> 108 -> 335 -> 244 -> 321 -> 182 -> 418 -> 445 -> 539 -> 219 -> 296 -> 61 -> 411 -> 338 -> 543 -> 491 -> 28 -> 537 -> 204 -> 133 -> 415 -> 310 -> 165 -> 589 -> 534 -> 372 -> 184 -> 524 -> 423 -> 458 -> 410 -> 210 -> 112 -> 449 -> 288 -> 21 -> 316 -> 34 -> 162 -> 587 -> 100 -> 508 -> 586 -> 297 -> 383 -> 453 -> 193 -> 408 -> 8 -> 206 -> 572 -> 567 -> 147 -> 322 -> 207 -> 477 -> 425 -> 120 -> 525 -> 152 -> 101 -> 0 -> 596 -> 57 -> 177 -> 455 -> 466 -> 176 -> 213 -> 349 -> 557 -> 180 -> 498 -> 105 -> 404 -> 5 -> 535 -> 66 -> 564 -> 457 -> 30 -> 536 -> 452 -> 354 -> 473 -> 340 -> 181 -> 506 -> 597 -> 355 -> 45 -> 432 -> 352 -> 339 -> 102 -> 279 -> 399 -> 221 -> 178 -> 223 -> 417 -> 29 -> 138 -> 157 -> 261 -> 412 -> 599 -> 104 -> 534 -> 578 -> 325 -> 270 -> 149 -> 546 -> 307 -> 88 -> 332 -> 50 -> 243 -> 328 -> 526 -> 518 -> 427 -> 538 -> 362 -> 401 -> 7 -> 83 -> 464 -> 402 -> 514 -> 283 -> 256 -> 19 -> 278 -> 395 -> 80 -> 426 -> 232 -> 245 -> 368 -> 520 -> 360 -> 271 -> 175 -> 134 -> 58 -> 31 -> 131 -> 143 -> 345 -> 528 -> 333 -> 580 -> 575 -> 224 -> 315 -> 363 -> 317 -> 306 -> 107 -> 130 -> 139 -> 484 -> 505 -> 124 -> 502 -> 290 -> 272 -> 247 -> 18 -> 481 -> 273 -> 151 -> 366 -> 437 -> 320 -> 281 -> 463 -> 91 -> 16 -> 161 -> 475 -> 264 -> 499 -> 509 -> 109 -> 516 -> 459 -> 493 -> 318 -> 254 -> 392 -> 238 -> 75 -> 222 -> 174 -> 81 -> 443 -> 531 -> 277 -> 116 -> 294 -> 583 -> 196 -> 70 -> 562 -> 305 -> 314 -> 588 -> 36 -> 179 -> 231 -> 136 -> 312 -> 167 -> 202 -> 49 -> 532 -> 285 -> 171 -> 33 -> 454 -> 188 -> 559 -> 359 -> 190 -> 393 -> 127 -> 342 -> 512 -> 203 -> 467 -> 422 -> 382 -> 330 -> 235 -> 216 -> 251 -> 351 -> 474 -> 594 -> 513 -> 54 -> 225 -> 68 -> 163 -> 563 -> 170 -> 113 -> 435 -> 263 -> 585 -> 173 -> 407 -> 346 -> 121 -> 424 -> 428 -> 90 -> 77 -> 192 -> 341 -> 35 -> 301 -> 480 -> 85 -> 549 -> 150 -> 377 -> 44 -> 308 -> 446 -> 431 -> 517 -> 25 -> 94 -> 10 -> 303 -> 47 -> 523 -> 115 -> 214 -> 39 -> 380 -> 140 -> 111 -> 489 -> 258 -> 82 -> 15 -> 9 -> 461 -> 4 -> 336 -> 396 -> 255 -> 378 -> 593 -> 482 -> 309 -> 413 -> 357 -> 211 -> 218 -> 504 -> 126 -> 365 -> 388 -> 344 -> 347 -> 14 -> 334 -> 451 -> 97 -> 554 -> 23 -> 292 -> 289 -> 350 -> 74 -> 229 -> 389 -> 560 -> 195 -> 233 -> 148 -> 237 -> 479 -> 438 -> 89 -> 267 -> 71 -> 22 -> 361 -> 259 -> 65 -> 400 -> 444 -> 391 -> 406 -> 487 -> 226 -> 565 -> 519 -> 250 -> 439 -> 63 -> 542 -> 118 -> 311 -> 52 -> 37 -> 257 -> 571 -> 98 -> 414 -> 501 -> 212 -> 284 -> 300 -> 96 -> 547 -> 551 -> 568 -> 324 -> 67 -> 471 -> 103 -> 84 -> 582 -> 590 -> 527 -> 313 -> 433 -> 73 -> 280 -> 419 -> 323 -> 55 -> 576 -> 265 -> 327 -> 373 -> 371 -> 397 -> 379 -> 530 -> 469 -> 194 -> 434 -> 436 -> 114 -> 48 -> 511 -> 268 -> 269 -> 386 -> 266 -> 577 -> 92 -> 46 -> 43 -> 153 -> 548 -> 450 -> 239 -> 556 -> 381 -> 199 -> 540 -> 552 -> 343 -> 592 -> 230 -> 430 -> 420 -> 282 -> 24 -> 331 -> 185 -> 595 -> 465 -> 584 -> 234 -> 348 -> 93 -> 553 -> 64 -> 574 -> 544 -> 158 -> 485 -> 555 -> 145 -> 42 -> 472 -> 56 -> 189 -> 160 -> 135 -> 462 -> 291 -> 183 -> 197 -> 69 -> 570 -> 496 -> 215 -> 38 -> 166 -> 117 -> 128 -> 287 -> 569 -> 326 -> 191 -> 249 -> 241 -> 86 -> 220 -> 486 -> 236 -> 490 -> 125 -> 51 -> 494 -> 405 -> 164 -> 358 -> 253 -> 17 -> 515 -> 566 -> 503 -> 240 -> 304 -> 79 -> 72 -> 200 -> 60 -> 59 -> 492 -> 510 -> 353 -> 252 -> 209 -> 242 -> 227 -> 217 -> 205 -> 172 -> 169 -> 76 -> 468 -> 132 -> 522 -> 476 -> 591 -> 201 -> 276 -> 387 -> 78 -> 228 -> 367 -> 337 -> 141 -> 53 -> 550
74. 46957.59821575251, 0.011, 3832, 1 -> 351 -> 99 -> 126 -> 401 -> 96 -> 183 -> 184 -> 446 -> 580 -> 114 -> 334 -> 461 -> 302 -> 582 -> 252 -> 597 -> 270 -> 171 -> 568 -> 84 -> 136 -> 133 -> 279 -> 567 -> 458 -> 541 -> 502 -> 138 -> 277 -> 204 -> 403 -> 226 -> 486 -> 235 -> 376 -> 335 -> 460 -> 544 -> 523 -> 576 -> 260 -> 384 -> 361 -> 348 -> 54 -> 292 -> 98 -> 176 -> 32 -> 290 -> 583 -> 117 -> 341 -> 102 -> 247 -> 256 -> 30 -> 366 -> 349 -> 560 -> 500 -> 17 -> 306 -> 37 -> 289 -> 471 -> 572 -> 342 -> 70 -> 474 -> 159 -> 439 -> 69 -> 513 -> 320 -> 517 -> 269 -> 103 -> 192 -> 442 -> 149 -> 105 -> 91 -> 3 -> 329 -> 223 -> 344 -> 151 -> 165 -> 364 -> 393 -> 571 -> 339 -> 53 -> 58 -> 470 -> 518 -> 433 -> 13 -> 281 -> 40 -> 436 -> 554 -> 418 -> 426 -> 66 -> 475 -> 197 -> 74 -> 537 -> 33 -> 113 -> 174 -> 10 -> 370 -> 508 -> 264 -> 59 -> 390 -> 46 -> 333 -> 140 -> 321 -> 532 -> 132 -> 246 -> 109 -> 60 -> 509 -> 522 -> 535 -> 298 -> 473 -> 267 -> 552 -> 180 -> 303 -> 82 -> 515 -> 489 -> 231 -> 463 -> 248 -> 527 -> 353 -> 236 -> 510 -> 141 -> 575 -> 137 -> 76 -> 101 -> 362 -> 63 -> 21 -> 410 -> 599 -> 25 -> 406 -> 94 -> 200 -> 175 -> 422 -> 389 -> 310 -> 272 -> 12 -> 332 -> 356 -> 483 -> 135 -> 371 -> 587 -> 24 -> 562 -> 293 -> 378 -> 490 -> 194 -> 92 -> 566 -> 514 -> 106 -> 225 -> 291 -> 152 -> 363 -> 201 -> 395 -> 469 -> 179 -> 284 -> 464 -> 300 -> 424 -> 360 -> 598 -> 519 -> 143 -> 507 -> 385 -> 258 -> 89 -> 317 -> 232 -> 287 -> 355 -> 209 -> 257 -> 450 -> 115 -> 213 -> 5 -> 591 -> 315 -> 379 -> 6 -> 72 -> 83 -> 7 -> 14 -> 185 -> 434 -> 90 -> 215 -> 437 -> 430 -> 19 -> 438 -> 516 -> 322 -> 455 -> 338 -> 343 -> 39 -> 211 -> 191 -> 420 -> 172 -> 404 -> 411 -> 178 -> 217 -> 423 -> 528 -> 161 -> 578 -> 79 -> 367 -> 36 -> 71 -> 128 -> 52 -> 87 -> 525 -> 388 -> 38

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75. 57319.746755567125, 0.011, 3832, 185 -> 44 -> 367 -> 270 -> 379 -> 494 -> 275 -> 54 -> 267 -> 388 -> 325 -> 449 -> 556 -> 343 -> 374 -> 563 -> 580 -> 522 -> 253 -> 583 -> 226 -> 292 -> 6 -> 179 -> 70 -> 344 -> 399 -> 565 -> 553 -> 443 -> 511 -> 166 -> 356 -> 132 -> 412 -> 468 -> 561 -> 293 -> 470 -> 513 -> 50 -> 171 -> 536 -> 445 -> 328 -> 317 -> 500 -> 523 -> 531 -> 434 -> 371 -> 295 -> 548 -> 193 -> 40 -> 69 -> 39 -> 36 -> 441 -> 197 -> 52 -> 444 -> 194 -> 109 -> 47 -> 62 -> 230 -> 116 -> 91 -> 262 -> 307 -> 574 -> 566 -> 463 -> 349 -> 297 -> 391 -> 216 -> 49 -> 341 -> 404 -> 1 -> 545 -> 461 -> 30 -> 32 -> 377 -> 238 -> 89 -> 268 -> 455 -> 448 -> 420 -> 158 -> 473 -> 524 -> 516 -> 541 -> 235 -> 120 -> 46 -> 169 -> 233 -> 104 -> 231 -> 321 -> 539 -> 394 -> 376 -> 17 -> 142 -> 299 -> 149 -> 204 -> 165 -> 95 -> 203 -> 389 -> 333 -> 191 -> 67 -> 543 -> 558 -> 316 -> 509 -> 593 -> 422 -> 454 -> 286 -> 497 -> 310 -> 596 -> 481 -> 296 -> 187 -> 345 -> 96 -> 126 -> 232 -> 538 -> 425 -> 8 -> 167 -> 366 -> 240 -> 488 -> 172 -> 287 -> 437 -> 598 -> 24 -> 579 -> 362 -> 474 -> 589 -> 127 -> 183 -> 106 -> 337 -> 64 -> 117 -> 584 -> 251 -> 525 -> 74 -> 439 -> 532 -> 75 -> 323 -> 576 -> 4 -> 11 -> 277 -> 396 -> 121 -> 529 -> 159 -> 151 -> 252 -> 426 -> 227 -> 259 -> 198 -> 5 -> 173 -> 112 -> 90 -> 73 -> 413 -> 348 -> 170 -> 97 -> 189 -> 220 -> 33 -> 272 -> 303 -> 135 -> 150 -> 365 -> 244 -> 476 -> 130 -> 479 -> 334 -> 482 -> 154 -> 582 -> 257 -> 237 -> 156 -> 469 -> 35 -> 224 -> 99 -> 517 -> 298 -> 125 -> 453 -> 442 -> 211 -> 339 -> 279 -> 460 -> 342 -> 66 -> 209 -> 351 -> 560 -> 27 -> 147 -> 65 -> 459 -> 234 -> 567 -> 368 -> 410 -> 417 -> 573 -> 29 -> 271 -> 361 -> 373 -> 223 -> 174 -> 300 -> 86 -> 38 -> 464 -> 478 -> 405 -> 245 -> 105 -> 59 -> 45 -> 530 -> 168 -> 94 -> 137 -> 79 -> 201 -> 406 -> 255 -> 108 -> 63 -> 124 -> 55 -> 261 -> 477 -> 222 -> 229 -> 319 -> 428 -> 56 -> 180 -> 26 -> 248 -> 260 -> 12 -> 491 -> 258 -> 597 -> 195 -> 140 -> 175 -> 424 -> 152 -> 72 -> 432 -> 269 -> 318 -> 354 -> 359 -> 196 -> 246 -> 134 -> 101 -> 34 -> 284 -> 358 -> 119 -> 308 -> 438 -> 381 -> 372 -> 302 -> 451 -> 440 -> 507 -> 487 -> 467 -> 518 -> 430 -> 355 -> 188 -> 93 -> 48 -> 498 -> 128 -> 61 -> 423 -> 322 -> 16 -> 403 -> 324 -> 285 -> 340 -> 397 -> 131 -> 330 -> 306 -> 217 -> 20 -> 595 -> 546 -> 243 -> 199 -> 263 -> 502 -> 591 -> 592 -> 206 -> 313 -> 484 -> 114 -> 123 -> 60 -> 508 -> 282 -> 382 -> 192 -> 177 -> 369 -> 239 -> 202 -> 571 -> 153 -> 136 -> 219 -> 357 -> 242 -> 364 -> 25 -> 390 -> 214 -> 215 -> 495 -> 533 -> 100 -> 14 -> 569 -> 103 -> 82 -> 51 -> 446 -> 568 -> 312 -> 528 -> 78 -> 41 -> 200 -> 315 -> 489 -> 384 -> 535 -> 393 -> 587 -> 218 -> 499 -> 547 -> 550 -> 228 -> 418 -> 383 -> 280 -> 118 -> 107 -> 0 -> 542 -> 572 -> 42 -> 564 -> 164 -> 331 -> 392 -> 160 -> 141 -> 335 -> 490 -> 190 -> 163 -> 102 -> 554 -> 363 -> 290 -> 247 -> 111 -> 456 -> 462 -> 83 -> 514 -> 15 -> 411 -> 9 -> 113 -> 31 -> 148 -> 71 -> 402 -> 578 -> 85 -> 266 -> 466 -> 176 -> 144 -> 10 -> 98 -> 457 -> 81 -> 504 -> 350 -> 157 -> 326 -> 400 -> 346 -> 92 -> 138 -> 327 -> 21 -> 254 -> 472 -> 320 -> 378 -> 314 -> 122 -> 58 -> 414 -> 77 -> 212 -> 510 -> 37 -> 360 -> 265 -> 80 -> 599 -> 519 -> 447 -> 575 -> 19 -> 110 -> 129 -> 329 -> 557 -> 311 -> 409 -> 527 -> 178 -> 57 -> 273 -> 537 -> 347 -> 353 -> 505 -> 133 -> 475 -> 577 -> 594 -> 407 -> 43 -> 590 -> 161 -> 205 -> 435 -> 485 -> 76 -> 336 -> 18 -> 386 -> 309 -> 186 -> 416 -> 419 -> 471 -> 84 -> 415 -> 549 -> 139 -> 401 -> 332 -> 408 -> 521 -> 512 -> 427 -> 143 -> 3 -> 13 -> 207 -> 276 -> 436 -> 534 -> 289 -> 278 -> 486 -> 551 -> 555 -> 370 -> 28 -> 22 -> 559 -> 184 -> 68 -> 496 -> 264 -> 7 -> 588 -> 53 -> 503 -> 515 -> 492 -> 493 -> 585 -> 221 -> 483 -> 294 -> 291 -> 562 -> 501 -> 225 -> 274 -> 155 -> 241 -> 552 -> 421 -> 249 -> 395 -> 305 -> 2 -> 398 -> 387 -> 429 -> 162 -> 526 -> 210 -> 338 -> 213 -> 458 -> 520 -> 352 -> 380 -> 250 -> 208 -> 450 -> 581 -> 431 -> 540 -> 385 -> 544 -> 146 -> 145 -> 288 -> 304 -> 283 -> 301 -> 87 -> 88 -> 433 -> 480 -> 586 -> 182 -> 506 -> 236 -> 375 -> 181 -> 281 -> 115 -> 465 -> 23 -> 570 -> 452 -> 185

76. 47492.26164412541, 0.012, 3832, 509 -> 461 -> 393 -> 183 -> 503 -> 479 -> 430 -> 75 -> 380 -> 396 -> 519 -> 241 -> 59 -> 403 -> 576 -> 484 -> 410 -> 556 -> 213 -> 357 -> 62 -> 34 -> 66 -> 226 -> 517 -> 41 -> 478 -> 299 -> 164 -> 255 -> 472 -> 438 -> 108 -> 64 -> 506 -> 30 -> 469 -> 9 -> 248 -> 419 -> 302 -> 179 -> 274 -> 51 -> 534 -> 11 -> 189 -> 207 -> 218 -> 318 -> 61 -> 131 -> 543 -> 15 -> 321 -> 136 -> 119 -> 38 -> 39 -> 24 -> 99 -> 384 -> 76 -> 118 -> 585 -> 172 -> 525 -> 201 -> 428 -> 72 -> 303 -> 124 -> 444 -> 6 -> 455 -> 120 -> 597 -> 232 -> 48 -> 106 -> 590 -> 268 -> 80 -> 117 -> 277 -> 269 -> 135 -> 354 -> 283 -> 466 -> 412 -> 261 -> 278 -> 272 -> 95 -> 599 -> 19 -> 464 -> 443 -> 594 -> 338 -> 333 -> 71 -> 431 -> 185 -> 235 -> 174 -> 161 -> 314 -> 175 -> 367 -> 495 -> 251 -> 188 -> 323 -> 592 -> 577 -> 298 -> 29 -> 25 -> 84 -> 591 -> 116 -> 558 -> 160 -> 206 -> 387 -> 584 -> 540 -> 234 -> 477 -> 566 -> 324 -> 153 -> 42 -> 244 -> 18 -> 407 -> 260 -> 223 -> 355 -> 395 -> 400 -> 408 -> 421 -> 45 -> 366 -> 467 -> 311 -> 295 -> 202 -> 312 -> 575 -> 437 -> 398 -> 500 -> 513 -> 1 -> 340 -> 181 -> 561 -> 85 -> 133 -> 339 -> 128 -> 391 -> 470 -> 510 -> 290 -> 158 -> 569 -> 304 -> 557 -> 483 -> 219 -> 499 -> 109 -> 257 -> 445 -> 345 -> 212 -> 327 -> 388 -> 227 -> 98 -> 222 -> 35 -> 581 -> 256 -> 554 -> 490 -> 16 -> 275 -> 544 -> 114 -> 55 -> 4 -> 442 -> 335 -> 236 -> 13 -> 152 -> 440 -> 125 -> 373 -> 515 -> 486 -> 375 -> 270 -> 110 -> 122 -> 21 -> 415 -> 3 -> 102 -> 225 -> 530 -> 291 -> 549 -> 139 -> 362 -> 282 -> 50 -> 33 -> 258 -> 231 -> 89 -> 474 -> 199 -> 230 -> 150 -> 96 -> 276 -> 429 -> 418 -> 254 -> 197 -> 359 -> 383 -> 210 -> 81 -> 341 -> 300 -> 439 -> 52 -> 480 -> 293 -> 535 -> 518 -> 346 -> 424 -> 320 -> 454 -> 545 -> 265 -> 250 -> 167 -> 262 -> 325 -> 432 -> 259 -> 371 -> 2 -> 546 -> 297 -> 491 -> 166 -> 156 -> 49 -> 142 -> 413 -> 514 -> 203 -> 315 -> 563 -> 322 -> 343 -> 32 -> 242 -> 347 -> 200 -> 86 -> 533 -> 148 -> 196 -> 0 -> 151 -> 143 -> 488 -> 190 -> 489 -> 527 -> 309 -> 127 -> 565 -> 531 -> 70 -> 22 -> 451 -> 195 -> 115 -> 411 -> 173 -> 350 -> 238 -> 427 -> 281 -> 487 -> 394 -> 579 -> 475 -> 598 -> 224 -> 7 -> 169 -> 392 -> 559 -> 528 -> 113 -> 43 -> 68 -> 63 -> 138 -> 37 -> 352 -> 422 -> 10 -> 220 -> 87 -> 317 -> 266 -> 90 -> 177 -> 273 -> 215 -> 141 -> 562 -> 578 -> 60 -> 79 -> 184 -> 123 -> 435 -> 214 -> 348 -> 458 -> 17 -> 452 -> 40 -> 447 -> 522 -> 492 -> 287 -> 405 -> 36 -> 501 -> 580 -> 482 -> 505 -> 93 -> 524 -> 294 -> 471 -> 186 -> 78 -> 409 -> 204 -> 406 -> 370 -> 521 -> 555 -> 47 -> 319 -> 245 -> 450 -> 208 -> 12 -> 449 -> 414 -> 264 -> 77 -> 307 -> 280 -> 552 -> 146 -> 351 -> 459 -> 107 -> 360 -> 239 -> 144 -> 356 -> 157 -> 168 -> 571 -> 237 -> 249 -> 221 -> 496 -> 547 -> 567 -> 316 -> 485 -> 502 -> 550 -> 101 -> 420 -> 216 -> 520 -> 512 -> 457 -> 498 -> 462 -> 593 -> 129 -> 233 -> 446 -> 529 ->

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77. 57762.40007388349, 0.012, 3832, 585 -> 163 -> 383 -> 245 -> 461 -> 235 -> 139 -> 369 -> 112 -> 388 -> 41 -> 438 -> 554 -> 144 -> 155
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-> 312 -> 76 -> 250 -> 157 -> 162 -> 407 -> 498 -> 268 -> 423 -> 129 -> 490 -> 187 -> 31 -> 319 -> 329 -> 253 -> 263 -> 594 -> 566 -> 485
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-> 258 -> 481 -> 395 -> 437 -> 280 -> 237 -> 44 -> 150 -> 472 -> 193 -> 520 -> 307 -> 124 -> 506 -> 452 -> 40 -> 516 -> 544 -> 532 -> 441
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78. 46474.61709684292, 0.011, 3832, 77 -> 291 -> 594 -> 91 -> 418 -> 113 -> 305 -> 32 -> 182 -> 230 -> 43 -> 142 -> 194 -> 412 -> 490 ->
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-> 128 -> 493 -> 166 -> 75 -> 444 -> 362 -> 360 -> 27 -> 278 -> 325 -> 447 -> 116 -> 414 -> 137 -> 136 -> 350 -> 442 -> 9 -> 5 -> 373 ->
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-> 356 -> 259 -> 528 -> 359 -> 84 -> 93 -> 598 -> 74 -> 595 -> 94 -> 425 -> 159 -> 430 -> 323 -> 468 -> 581 -> 551 -> 333 -> 379 -> 480 ->
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-> 324 -> 422 -> 220 -> 475 -> 492 -> 385 -> 505 -> 429 -> 415 -> 147 -> 29 -> 402 -> 253 -> 349 -> 319 -> 577 -> 587 -> 118 -> 413 ->
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79. 57453.6344653116, 0.011, 3832, 171 -> 476 -> 38 -> 394 -> 427 -> 302 -> 480 -> 364 -> 337 -> 353 -> 183 -> 300 -> 299 -> 573 -> 498 -> 470 -> 522 -> 477 -> 383 -> 182 -> 457 -> 187 -> 245 -> 219 -> 179 -> 406 -> 354 -> 375 -> 116 -> 12 -> 505 -> 96 -> 582 -> 19 -> 36 -> 344 -> 43 -> 193 -> 24 -> 597 -> 255 -> 42 -> 503 -> 170 -> 551 -> 434 -> 521 -> 379 -> 108 -> 437 -> 340 -> 548 -> 381 -> 537 -> 104 -> 213 -> 496 -> 371 -> 430 -> 472 -> 163 -> 542 -> 568 -> 484 -> 168 -> 501 -> 13 -> 587 -> 149 -> 554 -> 67 -> 159 -> 410 -> 347 -> 502 -> 211 -> 570 -> 466 -> 276 -> 588 -> 445 -> 88 -> 152 -> 314 -> 384 -> 535 -> 448 -> 161 -> 58 -> 250 -> 120 -> 532 -> 205 -> 333 -> 408 -> 335 -> 176 -> 249 -> 389 -> 260 -> 23 -> 497 -> 458 -> 235 -> 243 -> 167 -> 556 -> 223 -> 308 -> 154 -> 583 -> 268 -> 115 -> 424 -> 39 -> 229 -> 475 -> 485 -> 493 -> 317 -> 220 -> 129 -> 261 -> 399 -> 145 -> 246 -> 489 -> 254 -> 436 -> 175 -> 6 -> 581 -> 306 -> 20 -> 540 -> 320 -> 352 -> 178 -> 449 -> 60 -> 138 -> 11 -> 518 -> 366 -> 483 -> 298 -> 258 -> 578 -> 530 -> 89 -> 151 -> 80 -> 87 -> 284 -> 529 -> 545 -> 526 -> 100 -> 81 -> 478 -> 292 -> 9 -> 40 -> 563 -> 531 -> 564 -> 158 -> 422 -> 297 -> 420 -> 574 -> 509 -> 7 -> 524 -> 289 -> 331 -> 237 -> 400 -> 17 -> 304 -> 358 -> 55 -> 479 -> 125 -> 319 -> 64 -> 425 -> 486 -> 113 -> 146 -> 252 -> 566 -> 157 -> 25 -> 546 -> 523 -> 465 -> 571 -> 395 -> 511 -> 22 -> 95 -> 236 -> 367 -> 590 -> 185 -> 198 -> 504 -> 51 -> 114 -> 593 -> 278 -> 440 -> 4 -> 28 -> 150 -> 90 -> 403 -> 139 -> 547 -> 44 -> 467 -> 130 -> 271 -> 490 -> 174 -> 221 -> 438 -> 316 -> 380 -> 544 -> 567 -> 360 -> 251 -> 492 -> 165 -> 586 -> 30 -> 189 -> 432 -> 450 -> 575 -> 33 -> 451 -> 494 -> 417 -> 376 -> 126 -> 345 -> 591 -> 441 -> 506 -> 122 -> 226 -> 307 -> 117 -> 460 -> 123 -> 595 -> 209 -> 49 -> 136 -> 92 -> 296 -> 21 -> 525 -> 94 -> 412 -> 464 -> 103 -> 428 -> 279 -> 37 -> 343 -> 47 -> 341 -> 580 -> 244 -> 388 -> 53 -> 192 -> 301 -> 456 -> 156 -> 315 -> 266 -> 386 -> 326 -> 559 -> 295 -> 27 -> 217 -> 336 -> 107 -> 172 -> 241 -> 32 -> 565 -> 391 -> 228 -> 140 -> 141 -> 562 -> 515 -> 106 -> 397 -> 499 -> 270 -> 34 -> 222 -> 119 -> 368 -> 215 -> 57 -> 188 -> 14 -> 443 -> 414 -> 206 -> 74 -> 281 -> 322 -> 382 -> 569 -> 102 -> 240 -> 558 -> 93 -> 227 -> 166 -> 164 -> 267 -> 338 -> 473 -> 52 -> 99 -> 184 -> 3 -> 592 -> 124 -> 290 -> 541 -> 48 -> 153 -> 454 -> 557 -> 413 -> 398 -> 112 -> 350 -> 118 -> 552 -> 230 -> 421 -> 342 -> 507 -> 357 -> 488 -> 516 -> 463 -> 332 -> 431 -> 201 -> 282 -> 402 -> 69 -> 577 -> 210 -> 274 -> 543 -> 1 -> 390 -> 359 -> 62 -> 435 -> 132 -> 148 -> 196 -> 362 -> 433 -> 594 -> 393 -> 54 -> 269 -> 370 -> 598 -> 191 -> 186 -> 482 -> 66 -> 208 -> 416 -> 10 -> 311 -> 248 -> 111 -> 536 -> 180 -> 46 -> 519 -> 517 -> 429 -> 508 -> 409 -> 363 -> 26 -> 200 -> 128 -> 584 -> 247 -> 15 -> 318 -> 310 -> 404 -> 538 -> 579 -> 272 -> 418 -> 325 -> 334 -> 439 -> 50 -> 474 -> 514 -> 84 -> 527 -> 110 -> 242 -> 273 -> 8 -> 16 -> 378 -> 365 -> 238 -> 555 -> 76 -> 471 -> 233 -> 98 -> 348 -> 109 -> 72 -> 133 -> 407 -> 68 -> 264 -> 461 -> 349 -> 91 -> 415 -> 59 -> 291 -> 286 -> 528 -> 121 -> 234 -> 204 -> 312 -> 280 -> 224 -> 453 -> 373 -> 462 -> 495 -> 86 -> 355 -> 487 -> 576 -> 101 -> 423 -> 131 -> 63 -> 225 -> 0 -> 277 -> 513 -> 232 -> 45 -> 550 -> 203 -> 346 -> 181 -> 328 -> 387 -> 442 -> 599 -> 351 -> 2 -> 491 -> 585 -> 294 -> 330 -> 256 -> 190 -> 202 -> 135 -> 533 -> 259 -> 459 -> 75 -> 426 -> 549 -> 385 -> 195 -> 83 -> 361 -> 401 -> 169 -> 468 -> 396 -> 147 -> 288 -> 85 -> 218 -> 56 -> 455 -> 97 -> 369 -> 572 -> 285 -> 231 -> 257 -> 194 -> 321 -> 405 -> 419 -> 162 -> 510 -> 31 -> 142 -> 262 -> 35 -> 481 -> 303 -> 207 -> 444 -> 134 -> 216 -> 356 -> 309 -> 596 -> 144 -> 127 -> 137 -> 447 -> 339 -> 589 -> 79 -> 520 -> 71 -> 78 -> 446 -> 253 -> 287 -> 77 -> 73 -> 160 -> 469 -> 305 -> 560 -> 239 -> 452 -> 5 -> 323 -> 177 -> 553 -> 283 -> 214 -> 263 -> 377 -> 313 -> 105 -> 500 -> 143 -> 212 -> 329 -> 372 -> 275 -> 392 -> 327 -> 539 -> 70 -> 199 -> 411 -> 82 -> 155 -> 374 -> 18 -> 65 -> 197 -> 561 -> 29 -> 324 -> 61 -> 534 -> 293 -> 173 -> 512 -> 41 -> 265 -> 171
80. 46251.10468483394, 0.012, 3832, 547 -> 87 -> 315 -> 55 -> 99 -> 557 -> 240 -> 8 -> 269 -> 384 -> 531 -> 358 -> 204 -> 442 -> 549 -> 328 -> 402 -> 86 -> 122 -> 296 -> 66 -> 429 -> 17 -> 333 -> 174 -> 529 -> 462 -> 281 -> 10 -> 525 -> 580 -> 113 -> 495 -> 302 -> 261 -> 280 -> 425 -> 42 -> 203 -> 506 -> 248 -> 63 -> 119 -> 390 -> 484 -> 54 -> 407 -> 566 -> 380 -> 157 -> 306 -> 266 -> 53 -> 206 -> 245 -> 539 -> 457 -> 6 -> 21 -> 24 -> 309 -> 374 -> 460 -> 351 -> 56 -> 377 -> 345 -> 520 -> 397 -> 253 -> 582 -> 22 -> 215 -> 242 -> 446 -> 310 -> 141 -> 1 -> 447 -> 367 -> 30 -> 292 -> 227 -> 335 -> 486 -> 542 -> 598 -> 2 -> 160 -> 350 -> 538 -> 26 -> 47 -> 270 -> 344 -> 337 -> 184 -> 326 -> 247 -> 142 -> 3 -> 561 -> 395 -> 464 -> 509 -> 540 -> 180 -> 127 -> 560 -> 356 -> 171 -> 73 -> 400 -> 537 -> 273 -> 96 -> 361 -> 238 -> 50 -> 11 -> 176 -> 321 -> 469 -> 234 -> 392 -> 18 -> 562 -> 193 -> 430 -> 197 -> 236 -> 89 -> 161 -> 221 -> 508 -> 325 -> 322 -> 431 -> 436 -> 65 -> 596 -> 212 -> 131 -> 33 -> 591 -> 241 -> 317 -> 480 -> 243 -> 517 -> 41 -> 339 -> 417 -> 144 -> 522 -> 583 -> 283 -> 453 -> 432 -> 474 -> 268 -> 487 -> 237 -> 514 -> 334 -> 559 -> 312 -> 187 -> 382 -> 587 -> 428 -> 376 -> 318 -> 406 -> 570 -> 449 -> 523 -> 470 -> 422 -> 375 -> 378 -> 23 -> 443 -> 152 -> 195 -> 4 -> 182 -> 409 -> 19 -> 164 -> 498 -> 192 -> 78 -> 383 -> 0 -> 534 -> 387 -> 104 -> 463 -> 154 -> 201 -> 62 -> 149 -> 440 -> 543 -> 336 -> 451 -> 48 -> 500 -> 186 -> 81 -> 427 -> 331 -> 239 -> 12 -> 555 -> 102 -> 218 -> 170 -> 568 -> 311 -> 510 -> 58 -> 211 -> 177 -> 499 -> 541 -> 228 -> 289 -> 550 -> 403 -> 366 -> 388 -> 437 -> 235 -> 450 -> 83 -> 75 -> 146 -> 585 -> 223 -> 60 -> 37 -> 39 -> 210 -> 341 -> 411 -> 5 -> 493 -> 497 -> 595 -> 551 -> 158 -> 150 -> 51 -> 459 -> 108 -> 123 -> 360 -> 445 -> 97 -> 172 -> 76 -> 313 -> 521 -> 386 -> 586 -> 288 -> 346 -> 145 -> 305 -> 352 -> 183 -> 137 -> 597 -> 353 -> 303 -> 466 -> 189 -> 589 -> 507 -> 327 -> 132 -> 147 -> 274 -> 252 -> 370 -> 256 -> 9 -> 71 -> 492 -> 79 -> 7 -> 424 -> 162 -> 314 -> 385 -> 107 -> 128 -> 31 -> 156 -> 106 -> 188 -> 416 -> 259 -> 421 -> 476 -> 155 -> 72 -> 558 -> 564 -> 173 -> 448 -> 213 -> 573 -> 179 -> 415 -> 285 -> 57 -> 479 -> 116 -> 454 -> 265 -> 347 -> 229 -> 548 -> 271 -> 408 -> 369 -> 43 -> 293 -> 278 -> 69 -> 263 -> 286 -> 32 -> 44 -> 320 -> 577 -> 136 -> 545 -> 222 -> 64 -> 138 -> 410 -> 379 -> 220 -> 433 -> 359 -> 294 -> 216 -> 343 -> 178 -> 207 -> 489 -> 471 -> 505 -> 473 -> 159 -> 490 -> 516 -> 532 -> 412 -> 185 -> 85 -> 355 -> 258 -> 455 -> 262 -> 133 -> 232 -> 153 -> 200 -> 46 -> 190 -> 139 -> 592 -> 483 -> 526 -> 148 -> 494 -> 340 -> 82 -> 217 -> 103 -> 167 -> 194 -> 515 -> 168 -> 134 -> 151 -> 209 -> 581 -> 394 -> 231 -> 435 -> 426 -> 576 -> 419 -> 501 -> 282 -> 574 -> 578 -> 49 -> 254 -> 90 -> 338 -> 300 -> 14 -> 299 -> 579 -> 552 -> 556 -> 308 -> 316 -> 373 -> 324 -> 255 -> 298 -> 536 -> 405 -> 277 -> 364 -> 92 -> 491 -> 401 -> 251 -> 444 -> 371 -> 117 -> 166 -> 354 -> 68 -> 16 -> 488 -> 140 -> 588 -> 593 -> 175 -> 381 -> 518 -> 389 -> 219 -> 198 -> 61 -> 584 -> 477 -> 571 -> 456 -> 461 -> 121 -> 304 -> 458 -> 413 -> 530 -> 246 -> 572 -> 130 -> 399 -> 98 -> 114 -> 199 -> 101 -> 143 -> 36 -> 118 -> 291 -> 468 -> 290 -> 332 -> 260 -> 485 -> 319 -> 214 -> 111 -> 441 -> 565 -> 93 -> 544 -> 112 -> 115 -> 163 -> 25 -> 363 -> 348 -> 472 -> 13 -> 439 -> 372 -> 169 -> 365 -> 20 -> 52 -> 264 -> 100 -> 434 -> 297 -> 126 -> 553 -> 594 -> 88 -> 481 -> 94 -> 28 -> 74 -> 95 -> 109 -> 393 -> 533 -> 70 -> 244 -> 279 -> 513 -> 105 -> 420 -> 45 -> 250 -> 301 -> 91 -> 233 -> 575 -> 275 -> 284 -> 29 -> 257 -> 129 -> 475 -> 272 -> 40 -> 330 -> 511 -> 452 -> 512 -> 418 -> 423 -> 467 -> 563 -> 191 -> 362 -> 225 -> 496 -> 110 -> 205 -> 349 -> 323 -> 329 -> 567 -> 590 -> 342 -> 524 -> 368 -> 478 -> 67 -> 554 -> 398 -> 404 -> 267 -> 59 -> 124 -> 502 -> 120 -> 535 -> 224 -> 249 -> 226 -> 181 -> 230 -> 414 -> 546 -> 165 -> 202 -> 528 -> 287 -> 125 -> 503 -> 27 -> 519 -> 357 -> 276 -> 569 -> 504 -> 15 -> 482 -> 35 -> 208 -> 77 -> 135 -> 80 -> 295 -> 438 -> 38 -> 84 -> 599 -> 527 -> 391 -> 307 -> 34 -> 465 -> 396 -> 196 -> 547
81. 77227.86559830903, 0.017, 3832, 11 -> 139 -> 612 -> 410 -> 124 -> 633 -> 53 -> 798 -> 563 -> 679 -> 429 -> 28 -> 407 -> 152 -> 447 -> 524 -> 534 -> 691 -> 240 -> 582 -> 210 -> 98 -> 591 -> 672 -> 736 -> 328 -> 326 -> 353 -> 665 -> 299 -> 308 -> 394 -> 127 -> 737 -> 188 -> 531 -> 120 -> 337 -> 457 -> 759 -> 249 -> 215 -> 721 -> 327 -> 551 -> 180 -> 716 -> 259 -> 351 -> 496 -> 602 -> 583 -> 374 -> 217 -> 727 -> 424 -> 214 -> 747 -> 59 -> 343 -> 574 -> 556 -> 29 -> 443 -> 147 -> 194 -> 488 -> 245 -> 471 -> 190 -> 202 -> 397 -> 73 -> 461 -> 565 -> 105 -> 41 -> 345 -> 740 -> 744 -> 6 -> 606 -> 1 -> 117 -> 113 -> 165 -> 779 -> 109 -> 13 -> 276 -> 182 -> 720 -> 247 -> 81 -> 558 -> 640 -> 130 -> 735 -> 699 -> 617 -> 318 -> 60 -> 502 -> 436 -> 500 -> 483 -> 143 -> 209 -> 784 -> 106 -> 467 -> 370 -> 428 -> 669 -> 51 -> 630 -> 726 -> 659 -> 44 -> 458 -> 666 -> 537 -> 653 -> 636 -> 266 -> 702 -> 368 -> 184 -> 698 -> 788 -> 414 -> 644 -> 16 -> 722 -> 57 ->

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82. 64811.42698439727, 0.017, 3832, 481 -> 470 -> 262 -> 498 -> 529 -> 670 -> 28 -> 632 -> 742 -> 581 -> 337 -> 471 -> 32 -> 173 -> 735 -> 748 -> 151 -> 213 -> 332 -> 576 -> 176 -> 125 -> 320 -> 127 -> 514 -> 85 -> 667 -> 597 -> 709 -> 119 -> 250 -> 622 -> 743 -> 147 -> 634 -> 355 -> 766 -> 261 -> 561 -> 94 -> 616 -> 380 -> 327 -> 643 -> 93 -> 193 -> 375 -> 272 -> 432 -> 56 -> 454 -> 604 -> 678 -> 541 -> 248 -> 20 -> 57 -> 306 -> 794 -> 714 -> 254 -> 255 -> 751 -> 708 -> 630 -> 199 -> 648 -> 292 -> 445 -> 716 -> 101 -> 236 -> 27 -> 509 -> 5 -> 695 -> 185 -> 98 -> 281 -> 145 -> 753 -> 785 -> 116 -> 336 -> 95 -> 144 -> 583 -> 130 -> 722 -> 534 -> 18 -> 387 -> 633 -> 360 -> 507 -> 218 -> 610 -> 746 -> 435 -> 418 -> 135 -> 758 -> 165 -> 162 -> 725 -> 693 -> 348 -> 499 -> 321 -> 415 -> 388 -> 707 -> 359 -> 229 -> 706 -> 195 -> 480 -> 734 -> 89 -> 63 -> 745 -> 122 -> 698 -> 367 -> 641 -> 146 -> 438 -> 613 -> 390 -> 214 -> 527 -> 788 -> 672 -> 469 -> 680 -> 719 -> 565 -> 189 -> 759 -> 639 -> 247 -> 66 -> 460 -> 72 -> 39 -> 755 -> 465 -> 412 -> 421 -> 149 -> 79 -> 338 -> 589 -> 170 -> 344 -> 282 -> 638 -> 184 -> 403 -> 793 -> 659 -> 593 -> 463 -> 673 -> 55 -> 207 -> 526 -> 16 -> 180 -> 369 -> 23 -> 21 -> 11 -> 277 -> 376 -> 624 -> 196 -> 288 -> 238 -> 399 -> 486 -> 647 -> 53 -> 657 -> 155 -> 625 -> 437 -> 665 -> 762 -> 773 -> 88 -> 434 -> 266 -> 466 -> 615 -> 777 -> 795 -> 61 -> 585 -> 729 -> 628 -> 530 -> 713 -> 749 -> 31 -> 395 -> 679 -> 223 -> 703 -> 652 -> 228 -> 389 -> 754 -> 577 -> 556 -> 691 -> 700 -> 311 -> 121 -> 428 -> 575 -> 26 -> 784 -> 365 -> 443 -> 131 -> 356 -> 86 -> 227 -> 451 -> 298 -> 294 -> 242 -> 508 -> 420 -> 246 -> 699 -> 536 -> 656 -> 302 -> 609 -> 686 -> 301 -> 257 -> 181 -> 555 -> 482 -> 704 -> 157 -> 439 -> 396 -> 394 -> 649 -> 237 -> 660 -> 103 -> 473 -> 384 -> 4 -> 744 -> 129 -> 309 -> 175 -> 117 -> 791 -> 578 -> 244 -> 458 -> 378 -> 763 -> 614 -> 45 -> 595 -> 400 -> 325 -> 153 -> 538 -> 158 -> 154 -> 251 -> 334 -> 331 -> 283 -> 757 -> 739 -> 720 -> 297 -> 377 -> 666 -> 684 -> 431 -> 582 -> 717 -> 13 -> 479 -> 64 -> 166 -> 405 -> 226 -> 168 -> 483 -> 419 -> 475 -> 323 -> 343 -> 73 -> 328 -> 366 -> 319 -> 197 -> 312 -> 548 -> 19 -> 49 -> 712 -> 167 -> 358 -> 211 -> 694 -> 77 -> 727 -> 303 -> 411 -> 409 -> 220 -> 100 -> 285 -> 256 -> 329 -> 423 -> 732 -> 111 -> 653 -> 91 -> 182 -> 661 -> 341 -> 461 -> 611 -> 568 -> 495 -> 588 -> 617 -> 1 -> 159 -> 346 -> 608 -> 198 -> 383 -> 363 -> 426 -> 231 -> 291 -> 476 -> 29 -> 674 -> 570 -> 626 -> 650 -> 35 -> 492 -> 429 -> 296 -> 30 -> 606 -> 436 -> 268 -> 25 -> 75 -> 138 -> 202 -> 596 -> 502 -> 520 -> 494 -> 645 -> 513 -> 174 -> 792 -> 404 -> 515 -> 566 -> 689 -> 186 -> 496 -> 318 -> 497 -> 6 -> 531 -> 669 -> 790 -> 692 -> 518 -> 114 -> 128 -> 305 -> 76 -> 521 -> 349 -> 235 -> 34 -> 741 -> 269 -> 271 -> 690 -> 533 -> 279 -> 560 -> 342 -> 212 -> 636 -> 357 -> 44 -> 70 -> 354 -> 433 -> 265 -> 392 -> 477 -> 612 -> 210 -> 737 -> 192 -> 41 -> 286 -> 62 -> 133 -> 58 -> 183 -> 140 -> 278 -> 782 -> 397 -> 137 -> 655 -> 637 -> 14 -> 102 -> 775 -> 245 -> 584 -> 191 -> 516 -> 774 -> 721 -> 132 -> 240 -> 373 -> 452 -> 467 -> 605 -> 442 -> 163 -> 736 -> 629 -> 772 -> 7 -> 464 -> 203 -> 42 -> 105 -> 668 -> 351 -> 391 -> 740 -> 447 -> 74 -> 217 -> 169 -> 82 -> 545 -> 756 -> 239 -> 59 -> 546 -> 201 -> 416 -> 152 -> 120 -> 619 -> 562 -> 535 -> 532 -> 631 -> 50 -> 310 -> 215 -> 413 -> 225 -> 313 -> 22 -> 539 -> 71 -> 87 -> 65 -> 249 -> 651 -> 600 -> 304 -> 675 -> 764 -> 324 -> 308 -> 164 -> 179 -> 221 -> 92 -> 136 -> 658 -> 485 -> 385 -> 209 -> 350 -> 96 -> 289 -> 12 -> 234 -> 52 -> 187 -> 264 -> 501 -> 663 -> 90 -> 204 -> 150 -> 267 -> 573 -> 517 -> 340 -> 799 -> 124 -> 681 -> 512 -> 765 -> 430 -> 457 -> 172 -> 503 -> 284 -> 662 -> 414 -> 347 -> 646 -> 552 -> 797 -> 339 -> 216 -> 752 -> 148 -> 444 -> 489 -> 778 -> 627 -> 259 -> 54 -> 602 -> 671 -> 599 -> 142 -> 780 -> 544 -> 276 -> 352 -> 402 -> 370 -> 398 -> 779 -> 314 -> 504 -> 468 -> 462 -> 171 -> 253 -> 0 -> 330 -> 139 -> 107 -> 143 -> 789 -> 644 -> 287 -> 112 -> 161 -> 768 -> 607 -> 83 -> 685 -> 275 -> 379 -> 563 -> 230 -> 99 -> 188 -> 770 -> 219 -> 361 -> 46 -> 715 -> 78 -> 362 -> 505 -> 598 -> 733 -> 553 -> 586 -> 106 -> 252 -> 317 -> 688 -> 554 -> 511 -> 110 -> 664 -> 232 -> 761 -> 270 -> 771 -> 293 -> 524 -> 97 -> 15 -> 68 -> 307 -> 558 -> 594 -> 322 -> 478 -> 36 -> 687 -> 487 -> 484 -> 750 -> 519 -> 190 -> 474 -> 440 -> 156 -> 69 -> 587 -> 787 -> 38 -> 769 -> 10 -> 776 -> 697 -> 579 -> 280 -> 711 -> 177 -> 621 -> 591 -> 450 -> 374 -> 381 -> 274 -> 559 -> 542 -> 453 -> 523 -> 493 -> 781 -> 60 -> 141 -> 372 -> 537 -> 710 -> 37 -> 48 -> 528 -> 24 -> 592 -> 459 -> 84 -> 731 -> 233 -> 353 -> 747 -> 510 -> 550 -> 705 -> 51 -> 243 -> 491 -> 718 -> 506 -> 574 -> 17 -> 206 -> 441 -> 9 -> 580 -> 723 -> 290 -> 683 -> 335 -> 449 -> 386 -> 406 -> 222 -> 80 -> 590 -> 730 -> 371 -> 200 -> 2 -> 205 -> 525 -> 551 -> 178 -> 543 -> 160 -> 549 -> 425 -> 263 -> 557 -> 724 ->

241 -> 728 -> 571 -> 47 -> 3 -> 299 -> 417 -> 640 -> 109 -> 33 -> 43 -> 786 -> 401 -> 40 -> 601 -> 382 -> 603 -> 642 -> 569 -> 81 -> 345
-> 726 -> 368 -> 446 -> 326 -> 134 -> 67 -> 258 -> 500 -> 393 -> 623 -> 224 -> 654 -> 488 -> 696 -> 796 -> 123 -> 260 -> 783 -> 620 ->
115 -> 472 -> 364 -> 8 -> 738 -> 273 -> 701 -> 108 -> 455 -> 333 -> 490 -> 427 -> 522 -> 767 -> 564 -> 682 -> 295 -> 572 -> 567 -> 407 ->
118 -> 126 -> 113 -> 422 -> 208 -> 408 -> 540 -> 410 -> 300 -> 104 -> 618 -> 547 -> 635 -> 315 -> 676 -> 702 -> 677 -> 760 -> 194 -> 424
-> 316 -> 798 -> 456 -> 448 -> 481

83. 77583.53071570401, 0.018, 3832, 508 -> 454 -> 129 -> 457 -> 563 -> 440 -> 418 -> 85 -> 4 -> 351 -> 593 -> 338 -> 345 -> 405 -> 364 ->
543 -> 741 -> 117 -> 524 -> 70 -> 363 -> 412 -> 779 -> 124 -> 533 -> 44 -> 635 -> 759 -> 739 -> 49 -> 785 -> 122 -> 250 -> 330 -> 468 ->
463 -> 202 -> 608 -> 642 -> 582 -> 320 -> 59 -> 419 -> 453 -> 535 -> 155 -> 42 -> 287 -> 756 -> 175 -> 527 -> 335 -> 430 -> 378 -> 173 ->
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-> 768 -> 255 -> 686 -> 600 -> 134 -> 151 -> 310 -> 123 -> 401 -> 530 -> 282 -> 621 -> 6 -> 56 -> 67 -> 653 -> 97 -> 475 -> 95 -> 19 ->
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293 -> 3 -> 103 -> 641 -> 749 -> 455 -> 181 -> 630 -> 112 -> 684 -> 136 -> 738 -> 64 -> 197 -> 224 -> 48 -> 683 -> 714 -> 701 -> 278 ->
120 -> 362 -> 177 -> 193 -> 460 -> 55 -> 397 -> 703 -> 358 -> 717 -> 340 -> 301 -> 82 -> 597 -> 198 -> 30 -> 212 -> 62 -> 665 -> 265 ->
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-> 366 -> 152 -> 297 -> 444 -> 131 -> 758 -> 676 -> 707 -> 37 -> 719 -> 751 -> 317 -> 425 -> 525 -> 551 -> 92 -> 196 -> 178 -> 269 -> 17
-> 796 -> 349 -> 75 -> 294 -> 304 -> 427 -> 305 -> 395 -> 478 -> 481 -> 13 -> 472 -> 746 -> 339 -> 24 -> 367 -> 569 -> 565 -> 467 -> 476
-> 1 -> 747 -> 583 -> 182 -> 142 -> 133 -> 782 -> 404 -> 557 -> 257 -> 247 -> 356 -> 589 -> 486 -> 495 -> 252 -> 773 -> 216 -> 516 -> 750
-> 528 -> 295 -> 791 -> 790 -> 235 -> 360 -> 581 -> 51 -> 715 -> 702 -> 777 -> 417 -> 222 -> 761 -> 625 -> 80 -> 161 -> 609 -> 422 -> 370
-> 713 -> 712 -> 313 -> 666 -> 485 -> 724 -> 498 -> 585 -> 63 -> 333 -> 584 -> 494 -> 71 -> 352 -> 66 -> 521 -> 671 -> 567 -> 236 -> 389
-> 634 -> 176 -> 709 -> 448 -> 266 -> 469 -> 242 -> 241 -> 110 -> 231 -> 107 -> 694 -> 153 -> 26 -> 592 -> 649 -> 57 -> 574 -> 249 -> 204
-> 753 -> 657 -> 797 -> 435 -> 342 -> 20 -> 615 -> 484 -> 321 -> 416 -> 248 -> 514 -> 213 -> 43 -> 312 -> 25 -> 704 -> 327 -> 199 -> 617
-> 420 -> 239 -> 221 -> 431 -> 114 -> 413 -> 108 -> 298 -> 170 -> 606 -> 534 -> 220 -> 669 -> 227 -> 769 -> 101 -> 754 -> 776 -> 392 ->
421 -> 139 -> 734 -> 334 -> 794 -> 624 -> 315 -> 601 -> 598 -> 725 -> 648 -> 393 -> 588 -> 736 -> 166 -> 323 -> 126 -> 132 -> 341 -> 471
-> 555 -> 501 -> 41 -> 538 -> 424 -> 658 -> 764 -> 353 -> 784 -> 386 -> 258 -> 260 -> 306 -> 296 -> 698 -> 586 -> 343 -> 119 -> 226 ->
654 -> 154 -> 234 -> 261 -> 710 -> 115 -> 667 -> 191 -> 685 -> 163 -> 755 -> 506 -> 322 -> 348 -> 195 -> 354 -> 708 -> 385 -> 449 -> 88
-> 8 -> 272 -> 400 -> 169 -> 369 -> 38 -> 302 -> 432 -> 795 -> 277 -> 605 -> 192 -> 146 -> 428 -> 706 -> 513 -> 279 -> 36 -> 73 -> 143 ->
720 -> 619 -> 504 -> 656 -> 218 -> 245 -> 488 -> 5 -> 40 -> 2 -> 219 -> 459 -> 27 -> 9 -> 267 -> 613 -> 83 -> 789 -> 549 -> 102 -> 466 ->
35 -> 373 -> 398 -> 91 -> 691 -> 611 -> 183 -> 627 -> 160 -> 324 -> 762 -> 411 -> 130 -> 200 -> 610 -> 793 -> 275 -> 752 -> 558 -> 732 ->
640 -> 781 -> 492 -> 396 -> 359 -> 28 -> 433 -> 729 -> 744 -> 186 -> 292 -> 289 -> 184 -> 263 -> 21 -> 638 -> 512 -> 596 -> 273 -> 387 ->
626 -> 318 -> 674 -> 487 -> 415 -> 127 -> 7 -> 11 -> 375 -> 230 -> 14 -> 111 -> 633 -> 607 -> 679 -> 145 -> 434 -> 240 -> 442 -> 461 ->
570 -> 208 -> 578 -> 503 -> 426 -> 291 -> 723 -> 256 -> 443 -> 233 -> 149 -> 229 -> 299 -> 670 -> 203 -> 554 -> 74 -> 357 -> 125 -> 15 ->
402 -> 381 -> 500 -> 772 -> 612 -> 766 -> 450 -> 522 -> 594 -> 632 -> 238 -> 787 -> 743 -> 284 -> 770 -> 336 -> 215 -> 536 -> 731 -> 664
-> 542 -> 618 -> 372 -> 165 -> 262 -> 716 -> 167 -> 58 -> 46 -> 675 -> 647 -> 329 -> 332 -> 544 -> 660 -> 447 -> 380 -> 783 -> 237 -> 677
-> 438 -> 682 -> 711 -> 436 -> 217 -> 22 -> 474 -> 31 -> 568 -> 243 -> 672 -> 84 -> 159 -> 271 -> 579 -> 730 -> 643 -> 774 -> 390 -> 65 ->
290 -> 695 -> 189 -> 79 -> 489 -> 60 -> 171 -> 128 -> 728 -> 144 -> 699 -> 629 -> 214 -> 562 -> 700 -> 655 -> 577 -> 646 -> 519 -> 344 ->
331 -> 23 -> 757 -> 394 -> 445 -> 564 -> 207 -> 105 -> 529 -> 639 -> 446 -> 383 -> 540 -> 253 -> 77 -> 566 -> 158 -> 377 -> 361 -> 775 ->
767 -> 68 -> 225 -> 689 -> 760 -> 246 -> 150 -> 792 -> 33 -> 187 -> 270 -> 496 -> 164 -> 350 -> 477 -> 50 -> 406 -> 452 -> 81 -> 228 ->
232 -> 556 -> 355 -> 650 -> 740 -> 379 -> 620 -> 765 -> 553 -> 52 -> 604 -> 721 -> 106 -> 407 -> 499 -> 636 -> 156 -> 722 -> 726 -> 206
-> 473 -> 157 -> 644 -> 692 -> 283 -> 0 -> 771 -> 520 -> 399 -> 259 -> 511 -> 614 -> 470 -> 571 -> 541 -> 662 -> 505 -> 465 -> 464 -> 575
-> 244 -> 515 -> 337 -> 121 -> 303 -> 778 -> 409 -> 517 -> 622 -> 374 -> 560 -> 98 -> 545 -> 490 -> 576 -> 690 -> 76 -> 32 -> 410 -> 423
-> 135 -> 482 -> 190 -> 251 -> 376 -> 286 -> 599 -> 147 -> 441 -> 573 -> 651 -> 211 -> 274 -> 104 -> 137 -> 526 -> 591 -> 162 -> 180 ->
201 -> 479 -> 18 -> 210 -> 388 -> 687 -> 587 -> 113 -> 659 -> 93 -> 681 -> 696 -> 763 -> 384 -> 314 -> 561 -> 590 -> 439 -> 39 -> 288 ->
29 -> 53 -> 347 -> 403 -> 72 -> 480 -> 382 -> 602 -> 391 -> 346 -> 371 -> 623 -> 174 -> 34 -> 661 -> 550 -> 705 -> 54 -> 148 -> 663 -> 628
-> 109 -> 733 -> 637 -> 319 -> 223 -> 118 -> 786 -> 668 -> 456 -> 12 -> 616 -> 780 -> 437 -> 87 -> 99 -> 451 -> 546 -> 268 -> 326 -> 788
-> 414 -> 47 -> 737 -> 141 -> 799 -> 508

84. 65971.3076651158, 0.024, 3832, 524 -> 245 -> 48 -> 17 -> 544 -> 291 -> 349 -> 115 -> 562 -> 44 -> 22 -> 679 -> 373 -> 621 -> 402 ->
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-> 531 -> 96 -> 265 -> 565 -> 51 -> 738 -> 495 -> 340 -> 407 -> 585 -> 172 -> 736 -> 474 -> 104 -> 692 -> 700 -> 304 -> 25 -> 401 -> 233
-> 204 -> 416 -> 42 -> 718 -> 721 -> 225 -> 264 -> 285 -> 630 -> 329 -> 419 -> 694 -> 88 -> 301 -> 429 -> 393 -> 150 -> 683 -> 758 -> 348
-> 331 -> 113 -> 132 -> 378 -> 579 -> 105 -> 337 -> 1 -> 464 -> 452 -> 232 -> 601 -> 649 -> 510 -> 176 -> 189 -> 98 -> 255 -> 418 -> 394
-> 382 -> 286 -> 305 -> 726 -> 675 -> 710 -> 422 -> 462 -> 237 -> 338 -> 282 -> 272 -> 482 -> 656 -> 671 -> 295 -> 109 -> 597 -> 439 ->
311 -> 472 -> 538 -> 759 -> 682 -> 128 -> 62 -> 302 -> 112 -> 84 -> 63 -> 234 -> 208 -> 578 -> 575 -> 593 -> 270 -> 750 -> 443 -> 308 ->
91 -> 151 -> 489 -> 108 -> 355 -> 690 -> 641 -> 412 -> 453 -> 663 -> 146 -> 65 -> 516 -> 449 -> 110 -> 476 -> 249 -> 319 -> 411 -> 687 ->
667 -> 263 -> 248 -> 60 -> 654 -> 701 -> 344 -> 652 -> 799 -> 19 -> 174 -> 111 -> 82 -> 746 -> 791 -> 541 -> 141 -> 53 -> 123 -> 367 -> 29
-> 47 -> 660 -> 327 -> 715 -> 441 -> 294 -> 267 -> 528 -> 197 -> 210 -> 194 -> 391 -> 254 -> 707 -> 518 -> 533 -> 383 -> 780 -> 246 ->
515 -> 24 -> 755 -> 511 -> 376 -> 152 -> 613 -> 674 -> 341 -> 574 -> 258 -> 271 -> 762 -> 41 -> 590 -> 626 -> 95 -> 767 -> 665 -> 313 ->
90 -> 18 -> 325 -> 181 -> 714 -> 395 -> 253 -> 583 -> 684 -> 217 -> 655 -> 588 -> 603 -> 321 -> 377 -> 483 -> 231 -> 388 -> 498 -> 619 ->
184 -> 794 -> 185 -> 432 -> 158 -> 651 -> 223 -> 75 -> 244 -> 216 -> 606 -> 741 -> 627 -> 126 -> 290 -> 577 -> 162 -> 347 -> 404 -> 433
-> 259 -> 408 -> 116 -> 499 -> 639 -> 358 -> 269 -> 117 -> 212 -> 473 -> 298 -> 379 -> 380 -> 149 -> 560 -> 83 -> 160 -> 356 -> 70 -> 729
-> 421 -> 80 -> 310 -> 705 -> 622 -> 678 -> 33 -> 435 -> 530 -> 405 -> 351 -> 438 -> 157 -> 731 -> 440 -> 423 -> 396 -> 685 -> 686 -> 292
-> 336 -> 633 -> 315 -> 698 -> 7 -> 496 -> 475 -> 634 -> 513 -> 508 -> 392 -> 228 -> 360 -> 704 -> 735 -> 582 -> 781 -> 406 -> 460 -> 720
-> 250 -> 224 -> 563 -> 6 -> 280 -> 463 -> 580 -> 596 -> 102 -> 727 -> 268 -> 0 -> 279 -> 709 -> 708 -> 673 -> 434 -> 556 -> 74 -> 430 ->
415 -> 706 -> 125 -> 753 -> 387 -> 666 -> 409 -> 607 -> 732 -> 384 -> 8 -> 477 -> 106 -> 730 -> 175 -> 620 -> 713 -> 127 -> 85 -> 266 ->
122 -> 203 -> 93 -> 287 -> 34 -> 584 -> 493 -> 414 -> 199 -> 625 -> 284 -> 226 -> 247 -> 100 -> 623 -> 318 -> 79 -> 37 -> 156 -> 202 ->
309 -> 178 -> 776 -> 201 -> 346 -> 27 -> 190 -> 235 -> 480 -> 180 -> 133 -> 218 -> 485 -> 569 -> 576 -> 491 -> 130 -> 68 -> 610 -> 670 ->
114 -> 147 -> 548 -> 526 -> 546 -> 230 -> 609 -> 399 -> 454 -> 504 -> 604 -> 45 -> 262 -> 589 -> 751 -> 725 -> 154 -> 691 -> 602 -> 78 ->
155 -> 227 -> 240 -> 191 -> 543 -> 277 -> 445 -> 754 -> 467 -> 785 -> 770 -> 192 -> 43 -> 242 -> 49 -> 213 -> 740 -> 2 -> 774 -> 594 -> 31
-> 553 -> 461 -> 608 -> 469 -> 261 -> 442 -> 539 -> 397 -> 357 -> 722 -> 251 -> 209 -> 161 -> 369 -> 173 -> 514 -> 786 -> 289 -> 239 ->
350 -> 342 -> 558 -> 635 -> 537 -> 10 -> 661 -> 465 -> 372 -> 550 -> 517 -> 153 -> 769 -> 628 -> 638 -> 724 -> 23 -> 343 -> 512 -> 118 ->

688 -> 788 -> 195 -> 330 -> 471 -> 40 -> 581 -> 447 -> 747 -> 35 -> 681 -> 648 -> 137 -> 188 -> 742 -> 587 -> 792 -> 362 -> 283 -> 297 -> 657 -> 490 -> 771 -> 570 -> 140 -> 668 -> 26 -> 312 -> 324 -> 568 -> 760 -> 645 -> 689 -> 488 -> 566 -> 143 -> 564 -> 144 -> 615 -> 241 -> 183 -> 120 -> 598 -> 757 -> 293 -> 354 -> 699 -> 334 -> 459 -> 148 -> 446 -> 121 -> 555 -> 61 -> 468 -> 56 -> 13 -> 335 -> 784 -> 703 -> 773 -> 505 -> 617 -> 745 -> 502 -> 320 -> 76 -> 796 -> 501 -> 723 -> 716 -> 734 -> 71 -> 368 -> 339 -> 50 -> 21 -> 220 -> 219 -> 200 -> 136 -> 778 -> 506 -> 466 -> 552 -> 789 -> 238 -> 186 -> 427 -> 381 -> 352 -> 15 -> 303 -> 169 -> 306 -> 600 -> 101 -> 478 -> 69 -> 375 -> 39 -> 370 -> 300 -> 67 -> 702 -> 196 -> 193 -> 455 -> 345 -> 712 -> 650 -> 57 -> 139 -> 744 -> 296 -> 81 -> 444 -> 658 -> 777 -> 534 -> 273 -> 58 -> 54 -> 207 -> 717 -> 728 -> 752 -> 616 -> 20 -> 756 -> 52 -> 274 -> 519 -> 542 -> 494 -> 486 -> 260 -> 30 -> 643 -> 371 -> 205 -> 595 -> 386 -> 129 -> 119 -> 659 -> 775 -> 458 -> 448 -> 632 -> 772 -> 523 -> 500 -> 797 -> 413 -> 618 -> 509 -> 497 -> 765 -> 599 -> 535 -> 653 -> 86 -> 364 -> 410 -> 451 -> 424 -> 711 -> 159 -> 561 -> 719 -> 664 -> 768 -> 32 -> 307 -> 316 -> 59 -> 94 -> 644 -> 165 -> 167 -> 221 -> 417 -> 64 -> 551 -> 36 -> 612 -> 640 -> 798 -> 278 -> 507 -> 326 -> 549 -> 166 -> 389 -> 647 -> 142 -> 374 -> 72 -> 97 -> 592 -> 170 -> 4 -> 795 -> 398 -> 436 -> 323 -> 571 -> 529 -> 314 -> 145 -> 525 -> 676 -> 503 -> 236 -> 99 -> 171 -> 256 -> 450 -> 573 -> 696 -> 243 -> 333 -> 390 -> 680 -> 677 -> 631 -> 198 -> 520 -> 420 -> 437 -> 536 -> 748 -> 135 -> 317 -> 385 -> 46 -> 38 -> 428 -> 275 -> 484 -> 572 -> 646 -> 787 -> 431 -> 87 -> 299 -> 124 -> 547 -> 637 -> 403 -> 479 -> 567 -> 257 -> 107 -> 28 -> 642 -> 733 -> 697 -> 179 -> 229 -> 252 -> 779 -> 611 -> 16 -> 206 -> 5 -> 783 -> 586 -> 605 -> 456 -> 182 -> 103 -> 743 -> 425 -> 361 -> 363 -> 591 -> 168 -> 288 -> 470 -> 322 -> 614 -> 134 -> 532 -> 487 -> 559 -> 400 -> 332 -> 739 -> 138 -> 481 -> 737 -> 77 -> 540 -> 215 -> 131 -> 14 -> 554 -> 11 -> 3 -> 353 -> 782 -> 365 -> 211 -> 527 -> 214 -> 359 -> 672 -> 749 -> 761 -> 492 -> 222 -> 629 -> 669 -> 693 -> 55 -> 521 -> 426 -> 457 -> 276 -> 763 -> 66 -> 557 -> 545 -> 524

85. 77260.0428168978, 0.017, 3832, 732 -> 192 -> 67 -> 243 -> 397 -> 206 -> 198 -> 8 -> 219 -> 92 -> 711 -> 131 -> 585 -> 483 -> 625 -> 374 -> 511 -> 663 -> 212 -> 507 -> 307 -> 749 -> 150 -> 383 -> 101 -> 318 -> 168 -> 253 -> 111 -> 451 -> 394 -> 294 -> 407 -> 54 -> 402 -> 761 -> 255 -> 276 -> 671 -> 146 -> 81 -> 677 -> 560 -> 417 -> 747 -> 379 -> 554 -> 739 -> 577 -> 787 -> 494 -> 30 -> 382 -> 612 -> 120 -> 95 -> 259 -> 41 -> 700 -> 504 -> 56 -> 231 -> 412 -> 414 -> 308 -> 337 -> 135 -> 371 -> 466 -> 89 -> 189 -> 755 -> 721 -> 766 -> 347 -> 162 -> 82 -> 202 -> 257 -> 2 -> 378 -> 716 -> 332 -> 434 -> 584 -> 203 -> 273 -> 496 -> 237 -> 87 -> 342 -> 29 -> 208 -> 338 -> 666 -> 73 -> 473 -> 72 -> 574 -> 398 -> 22 -> 248 -> 418 -> 597 -> 21 -> 296 -> 438 -> 193 -> 753 -> 580 -> 645 -> 535 -> 515 -> 392 -> 572 -> 724 -> 719 -> 14 -> 283 -> 160 -> 514 -> 64 -> 345 -> 270 -> 449 -> 185 -> 548 -> 196 -> 635 -> 717 -> 678 -> 333 -> 462 -> 51 -> 465 -> 773 -> 740 -> 680 -> 798 -> 727 -> 492 -> 142 -> 186 -> 386 -> 188 -> 179 -> 312 -> 762 -> 760 -> 236 -> 118 -> 290 -> 705 -> 488 -> 541 -> 78 -> 47 -> 46 -> 363 -> 468 -> 339 -> 758 -> 400 -> 566 -> 346 -> 130 -> 309 -> 119 -> 145 -> 77 -> 256 -> 140 -> 599 -> 590 -> 234 -> 292 -> 220 -> 340 -> 349 -> 306 -> 643 -> 444 -> 151 -> 441 -> 474 -> 730 -> 435 -> 209 -> 143 -> 55 -> 741 -> 201 -> 544 -> 139 -> 429 -> 586 -> 432 -> 49 -> 110 -> 76 -> 439 -> 45 -> 247 -> 752 -> 519 -> 539 -> 650 -> 710 -> 280 -> 668 -> 498 -> 128 -> 137 -> 18 -> 326 -> 389 -> 771 -> 176 -> 673 -> 313 -> 623 -> 269 -> 746 -> 161 -> 25 -> 464 -> 260 -> 413 -> 638 -> 377 -> 68 -> 575 -> 148 -> 503 -> 550 -> 334 -> 733 -> 173 -> 698 -> 147 -> 391 -> 768 -> 718 -> 646 -> 534 -> 85 -> 350 -> 330 -> 33 -> 124 -> 479 -> 422 -> 149 -> 194 -> 708 -> 155 -> 84 -> 364 -> 530 -> 781 -> 608 -> 662 -> 478 -> 301 -> 416 -> 32 -> 713 -> 268 -> 415 -> 609 -> 59 -> 221 -> 522 -> 695 -> 594 -> 601 -> 433 -> 653 -> 714 -> 277 -> 682 -> 138 -> 80 -> 316 -> 459 -> 279 -> 211 -> 471 -> 591 -> 689 -> 728 -> 36 -> 122 -> 793 -> 197 -> 12 -> 226 -> 703 -> 23 -> 450 -> 636 -> 531 -> 58 -> 490 -> 642 -> 723 -> 520 -> 331 -> 764 -> 587 -> 239 -> 127 -> 275 -> 667 -> 3 -> 600 -> 97 -> 336 -> 102 -> 469 -> 657 -> 618 -> 50 -> 726 -> 210 -> 106 -> 213 -> 679 -> 547 -> 69 -> 178 -> 86 -> 604 -> 230 -> 271 -> 789 -> 37 -> 567 -> 456 -> 737 -> 190 -> 644 -> 165 -> 690 -> 31 -> 606 -> 693 -> 235 -> 744 -> 26 -> 159 -> 458 -> 482 -> 463 -> 172 -> 388 -> 430 -> 615 -> 688 -> 684 -> 133 -> 674 -> 362 -> 48 -> 207 -> 232 -> 288 -> 424 -> 624 -> 370 -> 777 -> 611 -> 245 -> 272 -> 670 -> 549 -> 440 -> 738 -> 175 -> 267 -> 264 -> 302 -> 241 -> 614 -> 446 -> 109 -> 529 -> 216 -> 627 -> 559 -> 751 -> 750 -> 603 -> 328 -> 252 -> 399 -> 497 -> 742 -> 501 -> 0 -> 571 -> 315 -> 634 -> 509 -> 42 -> 686 -> 262 -> 427 -> 592 -> 65 -> 552 -> 88 -> 582 -> 355 -> 28 -> 661 -> 619 -> 602 -> 5 -> 199 -> 617 -> 352 -> 691 -> 385 -> 779 -> 224 -> 775 -> 715 -> 4 -> 561 -> 756 -> 706 -> 423 -> 536 -> 788 -> 180 -> 540 -> 187 -> 675 -> 491 -> 712 -> 640 -> 460 -> 170 -> 735 -> 581 -> 655 -> 17 -> 396 -> 79 -> 665 -> 1 -> 792 -> 578 -> 52 -> 757 -> 373 -> 303 -> 431 -> 90 -> 319 -> 477 -> 66 -> 39 -> 790 -> 293 -> 506 -> 652 -> 659 -> 610 -> 153 -> 191 -> 411 -> 664 -> 295 -> 329 -> 770 -> 551 -> 776 -> 217 -> 250 -> 205 -> 20 -> 593 -> 454 -> 298 -> 794 -> 376 -> 573 -> 595 -> 639 -> 114 -> 425 -> 564 -> 112 -> 359 -> 725 -> 225 -> 654 -> 24 -> 656 -> 526 -> 96 -> 157 -> 532 -> 445 -> 780 -> 783 -> 420 -> 448 -> 94 -> 521 -> 356 -> 778 -> 351 -> 380 -> 240 -> 222 -> 228 -> 759 -> 300 -> 649 -> 167 -> 287 -> 83 -> 763 -> 7 -> 436 -> 660 -> 528 -> 442 -> 486 -> 555 -> 62 -> 369 -> 563 -> 537 -> 622 -> 125 -> 557 -> 242 -> 174 -> 472 -> 485 -> 447 -> 701 -> 233 -> 387 -> 637 -> 141 -> 797 -> 542 -> 184 -> 470 -> 628 -> 200 -> 105 -> 115 -> 93 -> 641 -> 405 -> 348 -> 368 -> 314 -> 320 -> 325 -> 156 -> 366 -> 71 -> 616 -> 428 -> 743 -> 353 -> 158 -> 344 -> 6 -> 596 -> 123 -> 335 -> 238 -> 799 -> 702 -> 249 -> 195 -> 699 -> 229 -> 631 -> 311 -> 697 -> 278 -> 579 -> 505 -> 263 -> 75 -> 43 -> 443 -> 19 -> 681 -> 568 -> 734 -> 34 -> 621 -> 512 -> 513 -> 393 -> 289 -> 527 -> 304 -> 53 -> 784 -> 113 -> 685 -> 286 -> 772 -> 183 -> 648 -> 100 -> 538 -> 285 -> 709 -> 395 -> 476 -> 324 -> 672 -> 545 -> 381 -> 774 -> 676 -> 116 -> 126 -> 103 -> 182 -> 297 -> 546 -> 558 -> 357 -> 607 -> 327 -> 467 -> 408 -> 261 -> 453 -> 63 -> 455 -> 533 -> 132 -> 401 -> 722 -> 13 -> 281 -> 694 -> 569 -> 785 -> 99 -> 375 -> 543 -> 9 -> 598 -> 562 -> 91 -> 70 -> 282 -> 404 -> 44 -> 152 -> 317 -> 214 -> 390 -> 299 -> 154 -> 321 -> 367 -> 227 -> 767 -> 633 -> 731 -> 40 -> 27 -> 365 -> 500 -> 629 -> 16 -> 265 -> 493 -> 258 -> 475 -> 748 -> 244 -> 525 -> 630 -> 613 -> 487 -> 696 -> 765 -> 516 -> 204 -> 518 -> 35 -> 626 -> 480 -> 266 -> 704 -> 796 -> 457 -> 360 -> 658 -> 421 -> 791 -> 169 -> 754 -> 769 -> 481 -> 10 -> 782 -> 583 -> 588 -> 589 -> 452 -> 164 -> 687 -> 177 -> 121 -> 461 -> 484 -> 181 -> 15 -> 795 -> 556 -> 651 -> 605 -> 38 -> 11 -> 553 -> 361 -> 98 -> 60 -> 274 -> 223 -> 720 -> 736 -> 144 -> 136 -> 254 -> 215 -> 692 -> 489 -> 291 -> 57 -> 403 -> 163 -> 495 -> 305 -> 570 -> 341 -> 565 -> 166 -> 576 -> 647 -> 406 -> 510 -> 632 -> 707 -> 499 -> 729 -> 669 -> 517 -> 683 -> 372 -> 61 -> 218 -> 419 -> 426 -> 384 -> 310 -> 107 -> 620 -> 322 -> 129 -> 745 -> 786 -> 354 -> 284 -> 508 -> 171 -> 410 -> 246 -> 134 -> 74 -> 117 -> 323 -> 343 -> 104 -> 523 -> 409 -> 108 -> 358 -> 251 -> 524 -> 437 -> 502 -> 732

86. 64767.550127606744, 0.019, 3832, 674 -> 479 -> 415 -> 72 -> 606 -> 517 -> 150 -> 258 -> 610 -> 187 -> 286 -> 3 -> 52 -> 209 -> 94 -> 119 -> 11 -> 381 -> 196 -> 639 -> 501 -> 779 -> 49 -> 399 -> 234 -> 256 -> 749 -> 725 -> 184 -> 718 -> 411 -> 448 -> 288 -> 81 -> 546 -> 4 -> 146 -> 346 -> 347 -> 758 -> 16 -> 627 -> 361 -> 302 -> 154 -> 657 -> 567 -> 754 -> 330 -> 599 -> 201 -> 676 -> 226 -> 732 -> 175 -> 785 -> 515 -> 786 -> 540 -> 772 -> 499 -> 265 -> 511 -> 571 -> 341 -> 97 -> 143 -> 548 -> 470 -> 684 -> 637 -> 391 -> 609 -> 781 -> 186 -> 384 -> 383 -> 376 -> 790 -> 543 -> 455 -> 589 -> 636 -> 787 -> 577 -> 679 -> 721 -> 23 -> 796 -> 444 -> 222 -> 264 -> 114 -> 446 -> 668 -> 270 -> 618 -> 279 -> 79 -> 414 -> 296 -> 18 -> 0 -> 669 -> 207 -> 350 -> 210 -> 437 -> 180 -> 777 -> 243 -> 167 -> 584 -> 232 -> 647 -> 213 -> 475 -> 585 -> 768 -> 321 -> 395 -> 166 -> 240 -> 43 -> 557 -> 789 -> 126 -> 795 -> 171 -> 586 -> 691 -> 42 -> 135 -> 412 -> 615 -> 96 -> 333 -> 642 -> 83 -> 390 -> 562 -> 694 -> 158 -> 334 -> 307 -> 36 -> 620 -> 613 -> 753 -> 701 -> 393 -> 205 -> 263 -> 700 -> 15 -> 244 -> 568 -> 565 -> 619 -> 708 -> 367 -> 9 -> 62 -> 427 -> 604 -> 704 -> 374 -> 144 -> 743 -> 128 -> 561 -> 178 -> 220 -> 66 -> 734 -> 641 -> 34 -> 532 -> 271 -> 498 -> 432 -> 110 -> 549 -> 163 -> 366 -> 122 -> 356 -> 523 -> 655 -> 363 -> 59 -> 245 -> 784 -> 729 -> 588 -> 791 -> 99 -> 686 -> 563 -> 440 -> 682 -> 480 -> 138 -> 535 -> 654 -> 160 -> 692 -> 677 -> 489 -> 149 -> 219 -> 520 -> 573 -> 602 -> 71 -> 590 -> 308 -> 659 -> 300 -> 471 -> 35 -> 794 -> 378 -> 495 -> 116 -> 769 -> 266 -> 678 -> 603 -> 451 -> 188 -> 228 -> 41 -> 26 -> 731

-> 236 -> 131 -> 400 -> 751 -> 497 -> 770 -> 648 -> 84 -> 108 -> 756 -> 710 -> 316 -> 712 -> 190 -> 559 -> 728 -> 262 -> 607 -> 218 ->
214 -> 229 -> 139 -> 418 -> 164 -> 407 -> 311 -> 614 -> 449 -> 493 -> 93 -> 508 -> 592 -> 2 -> 403 -> 424 -> 380 -> 406 -> 425 -> 91 ->
312 -> 792 -> 357 -> 204 -> 726 -> 285 -> 472 -> 298 -> 469 -> 198 -> 372 -> 766 -> 502 -> 459 -> 277 -> 512 -> 633 -> 211 -> 368 -> 54
-> 75 -> 216 -> 665 -> 625 -> 421 -> 685 -> 301 -> 771 -> 742 -> 457 -> 778 -> 547 -> 25 -> 752 -> 773 -> 408 -> 161 -> 727 -> 711 -> 294
-> 484 -> 398 -> 268 -> 386 -> 125 -> 340 -> 481 -> 76 -> 483 -> 683 -> 5 -> 106 -> 473 -> 351 -> 572 -> 206 -> 8 -> 516 -> 47 -> 531 ->
274 -> 331 -> 58 -> 179 -> 697 -> 373 -> 630 -> 305 -> 105 -> 537 -> 273 -> 267 -> 137 -> 755 -> 452 -> 765 -> 293 -> 121 -> 272 -> 643
-> 574 -> 441 -> 477 -> 595 -> 253 -> 798 -> 413 -> 247 -> 70 -> 130 -> 362 -> 402 -> 640 -> 730 -> 438 -> 405 -> 107 -> 621 -> 31 -> 409
-> 78 -> 191 -> 202 -> 518 -> 525 -> 478 -> 626 -> 203 -> 539 -> 554 -> 530 -> 348 -> 292 -> 624 -> 235 -> 254 -> 580 -> 309 -> 249 ->
339 -> 762 -> 799 -> 385 -> 611 -> 747 -> 739 -> 318 -> 358 -> 422 -> 65 -> 217 -> 650 -> 208 -> 30 -> 608 -> 439 -> 629 -> 761 -> 129 ->
724 -> 315 -> 656 -> 542 -> 283 -> 663 -> 496 -> 310 -> 212 -> 157 -> 174 -> 460 -> 488 -> 635 -> 487 -> 200 -> 289 -> 141 -> 133 -> 33
-> 359 -> 233 -> 465 -> 355 -> 327 -> 433 -> 763 -> 463 -> 192 -> 474 -> 505 -> 690 -> 276 -> 492 -> 140 -> 578 -> 533 -> 111 -> 494 ->
579 -> 454 -> 388 -> 723 -> 504 -> 576 -> 101 -> 13 -> 197 -> 172 -> 104 -> 429 -> 57 -> 360 -> 745 -> 6 -> 152 -> 397 -> 53 -> 48 -> 325
-> 581 -> 45 -> 156 -> 435 -> 737 -> 703 -> 337 -> 73 -> 22 -> 476 -> 776 -> 594 -> 638 -> 37 -> 98 -> 503 -> 269 -> 746 -> 86 -> 396 ->
670 -> 757 -> 673 -> 672 -> 658 -> 118 -> 556 -> 221 -> 394 -> 63 -> 170 -> 250 -> 323 -> 377 -> 442 -> 428 -> 661 -> 513 -> 702 -> 696
-> 420 -> 280 -> 215 -> 526 -> 519 -> 85 -> 365 -> 297 -> 616 -> 320 -> 1 -> 120 -> 304 -> 514 -> 528 -> 20 -> 529 -> 662 -> 617 -> 147 ->
750 -> 775 -> 733 -> 117 -> 251 -> 14 -> 564 -> 788 -> 534 -> 123 -> 596 -> 109 -> 653 -> 349 -> 51 -> 151 -> 39 -> 387 -> 260 -> 46 ->
680 -> 434 -> 569 -> 132 -> 27 -> 707 -> 21 -> 134 -> 430 -> 313 -> 338 -> 64 -> 335 -> 600 -> 699 -> 767 -> 570 -> 510 -> 500 -> 544 ->
628 -> 193 -> 155 -> 453 -> 230 -> 369 -> 328 -> 29 -> 714 -> 597 -> 744 -> 112 -> 162 -> 524 -> 706 -> 782 -> 736 -> 445 -> 24 -> 612 ->
153 -> 281 -> 278 -> 299 -> 95 -> 401 -> 667 -> 671 -> 719 -> 183 -> 436 -> 443 -> 591 -> 314 -> 87 -> 90 -> 231 -> 645 -> 545 -> 261 ->
759 -> 456 -> 324 -> 450 -> 169 -> 416 -> 237 -> 185 -> 255 -> 688 -> 370 -> 44 -> 764 -> 241 -> 353 -> 60 -> 560 -> 689 -> 634 -> 88 ->
722 -> 238 -> 61 -> 103 -> 783 -> 666 -> 507 -> 797 -> 392 -> 342 -> 631 -> 605 -> 419 -> 622 -> 326 -> 12 -> 291 -> 10 -> 224 -> 738 ->
239 -> 322 -> 248 -> 623 -> 177 -> 741 -> 601 -> 182 -> 664 -> 195 -> 115 -> 461 -> 748 -> 223 -> 760 -> 227 -> 69 -> 382 -> 287 -> 332
-> 716 -> 295 -> 257 -> 644 -> 410 -> 598 -> 687 -> 582 -> 55 -> 389 -> 550 -> 242 -> 252 -> 417 -> 423 -> 67 -> 447 -> 735 -> 553 -> 306
-> 50 -> 19 -> 92 -> 181 -> 552 -> 319 -> 698 -> 426 -> 371 -> 343 -> 194 -> 168 -> 458 -> 282 -> 681 -> 404 -> 127 -> 317 -> 485 -> 566
-> 705 -> 774 -> 189 -> 527 -> 145 -> 632 -> 720 -> 538 -> 551 -> 482 -> 159 -> 275 -> 100 -> 466 -> 693 -> 80 -> 652 -> 464 -> 176 ->
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-> 38 -> 142 -> 74 -> 715 -> 124 -> 77 -> 583 -> 113 -> 354 -> 491 -> 660 -> 7 -> 467 -> 651 -> 375 -> 575 -> 462 -> 780 -> 536 -> 259 ->
246 -> 344 -> 173 -> 709 -> 345 -> 740 -> 165 -> 521 -> 555 -> 506 -> 40 -> 541 -> 649 -> 793 -> 379 -> 431 -> 329 -> 68 -> 32 -> 713 ->
558 -> 199 -> 593 -> 290 -> 509 -> 303 -> 490 -> 674

87. 77586.24650749564, 0.018, 3832, 242 -> 77 -> 738 -> 677 -> 165 -> 146 -> 799 -> 101 -> 668 -> 421 -> 706 -> 595 -> 268 -> 107 -> 737
-> 616 -> 688 -> 275 -> 609 -> 297 -> 623 -> 9 -> 549 -> 106 -> 346 -> 117 -> 223 -> 154 -> 376 -> 681 -> 647 -> 474 -> 134 -> 435 -> 404
-> 502 -> 510 -> 38 -> 732 -> 572 -> 24 -> 718 -> 79 -> 712 -> 796 -> 521 -> 127 -> 698 -> 129 -> 26 -> 405 -> 71 -> 625 -> 782 -> 356 ->
282 -> 721 -> 529 -> 209 -> 366 -> 63 -> 453 -> 729 -> 637 -> 177 -> 746 -> 455 -> 772 -> 13 -> 233 -> 105 -> 389 -> 319 -> 392 -> 788 ->
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621 -> 627 -> 345 -> 554 -> 182 -> 367 -> 231 -> 661 -> 494 -> 221 -> 95 -> 116 -> 29 -> 429 -> 566 -> 684 -> 299 -> 534 -> 505 -> 34 ->
401 -> 199 -> 461 -> 565 -> 51 -> 313 -> 239 -> 472 -> 678 -> 458 -> 37 -> 185 -> 218 -> 124 -> 266 -> 711 -> 211 -> 456 -> 603 -> 160 ->
447 -> 235 -> 512 -> 480 -> 636 -> 506 -> 635 -> 220 -> 360 -> 78 -> 386 -> 222 -> 431 -> 690 -> 5 -> 528 -> 152 -> 225 -> 600 -> 141 ->
45 -> 256 -> 200 -> 784 -> 198 -> 709 -> 173 -> 583 -> 546 -> 410 -> 481 -> 394 -> 701 -> 531 -> 424 -> 602 -> 445 -> 409 -> 157 -> 180
-> 524 -> 155 -> 614 -> 184 -> 362 -> 149 -> 4 -> 412 -> 66 -> 249 -> 496 -> 417 -> 574 -> 422 -> 757 -> 606 -> 295 -> 607 -> 262 -> 189
-> 248 -> 559 -> 183 -> 599 -> 178 -> 704 -> 138 -> 726 -> 263 -> 81 -> 643 -> 245 -> 226 -> 766 -> 722 -> 675 -> 420 -> 274 -> 622 ->
587 -> 598 -> 789 -> 499 -> 219 -> 759 -> 656 -> 514 -> 523 -> 734 -> 555 -> 764 -> 464 -> 552 -> 277 -> 479 -> 666 -> 270 -> 215 -> 133
-> 397 -> 110 -> 80 -> 359 -> 390 -> 375 -> 374 -> 503 -> 261 -> 357 -> 292 -> 569 -> 652 -> 393 -> 605 -> 163 -> 489 -> 325 -> 87 -> 353
-> 486 -> 783 -> 40 -> 731 -> 740 -> 352 -> 181 -> 543 -> 153 -> 442 -> 551 -> 769 -> 781 -> 273 -> 333 -> 6 -> 482 -> 780 -> 460 -> 131
-> 631 -> 269 -> 617 -> 98 -> 276 -> 762 -> 283 -> 44 -> 230 -> 288 -> 454 -> 581 -> 196 -> 752 -> 629 -> 298 -> 576 -> 321 -> 771 -> 743
-> 328 -> 89 -> 658 -> 696 -> 84 -> 699 -> 42 -> 465 -> 293 -> 702 -> 525 -> 3 -> 69 -> 651 -> 733 -> 407 -> 708 -> 326 -> 761 -> 195 ->
23 -> 604 -> 441 -> 791 -> 93 -> 692 -> 41 -> 302 -> 170 -> 323 -> 316 -> 60 -> 150 -> 567 -> 439 -> 267 -> 451 -> 139 -> 0 -> 140 -> 626
-> 741 -> 415 -> 610 -> 414 -> 557 -> 88 -> 300 -> 28 -> 126 -> 438 -> 398 -> 419 -> 736 -> 545 -> 179 -> 255 -> 570 -> 396 -> 689 -> 632
-> 786 -> 36 -> 304 -> 265 -> 596 -> 490 -> 303 -> 500 -> 205 -> 310 -> 201 -> 457 -> 331 -> 591 -> 15 -> 142 -> 577 -> 725 -> 332 -> 728
-> 411 -> 484 -> 383 -> 68 -> 137 -> 795 -> 162 -> 399 -> 348 -> 527 -> 381 -> 730 -> 19 -> 645 -> 416 -> 462 -> 608 -> 588 -> 164 -> 638
-> 547 -> 624 -> 322 -> 798 -> 167 -> 770 -> 379 -> 459 -> 742 -> 504 -> 634 -> 306 -> 586 -> 174 -> 673 -> 47 -> 55 -> 377 -> 76 -> 533
-> 469 -> 252 -> 187 -> 408 -> 338 -> 507 -> 717 -> 309 -> 553 -> 94 -> 756 -> 535 -> 279 -> 385 -> 212 -> 271 -> 532 -> 448 -> 707 -> 57
-> 657 -> 373 -> 238 -> 425 -> 147 -> 382 -> 287 -> 186 -> 115 -> 751 -> 90 -> 114 -> 58 -> 54 -> 548 -> 317 -> 217 -> 342 -> 21 -> 344 ->
660 -> 1 -> 22 -> 286 -> 664 -> 197 -> 250 -> 716 -> 526 -> 227 -> 498 -> 686 -> 232 -> 311 -> 192 -> 312 -> 719 -> 67 -> 768 -> 649 ->
640 -> 573 -> 491 -> 99 -> 470 -> 446 -> 400 -> 2 -> 705 -> 260 -> 20 -> 241 -> 365 -> 758 -> 497 -> 122 -> 83 -> 125 -> 335 -> 53 -> 564
-> 50 -> 113 -> 427 -> 354 -> 35 -> 787 -> 584 -> 467 -> 683 -> 350 -> 327 -> 329 -> 206 -> 91 -> 501 -> 259 -> 272 -> 108 -> 61 -> 477 ->
520 -> 102 -> 659 -> 307 -> 369 -> 723 -> 208 -> 669 -> 119 -> 748 -> 314 -> 628 -> 556 -> 372 -> 776 -> 378 -> 244 -> 234 -> 601 -> 544
-> 694 -> 202 -> 775 -> 613 -> 361 -> 27 -> 75 -> 473 -> 247 -> 59 -> 25 -> 487 -> 488 -> 618 -> 790 -> 305 -> 395 -> 320 -> 214 -> 646 ->
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88. 64938.26690318424, 0.019, 3832, 786 -> 250 -> 58 -> 416 -> 404 -> 115 -> 103 -> 447 -> 430 -> 140 -> 375 -> 646 -> 357 -> 691 -> 191 -> 552 -> 596 -> 125 -> 258 -> 276 -> 590 -> 152 -> 157 -> 405 -> 497 -> 788 -> 609 -> 442 -> 582 -> 240 -> 118 -> 238 -> 42 -> 315 -> 724 -> 414 -> 722 -> 602 -> 528 -> 48 -> 418 -> 756 -> 467 -> 397 -> 727 -> 301 -> 85 -> 682 -> 136 -> 444 -> 472 -> 507 -> 773 -> 229 -> 509 -> 703 -> 150 -> 217 -> 14 -> 283 -> 69 -> 622 -> 193 -> 555 -> 204 -> 711 -> 161 -> 79 -> 298 -> 288 -> 526 -> 751 -> 263 -> 496 -> 286 -> 770 -> 785 -> 423 -> 406 -> 127 -> 597 -> 512 -> 797 -> 749 -> 158 -> 499 -> 256 -> 764 -> 437 -> 25 -> 275 -> 91 -> 185 -> 77 -> 718 -> 222 -> 594 -> 237 -> 481 -> 116 -> 139 -> 598 -> 577 -> 5 -> 522 -> 387 -> 279 -> 176 -> 567 -> 398 -> 167 -> 608 -> 81 -> 671 -> 616 -> 17 -> 631 -> 221 -> 681 -> 790 -> 304 -> 419 -> 519 -> 82 -> 198 -> 291 -> 595 -> 471 -> 409 -> 642 -> 63 -> 450 -> 330 -> 297 -> 243 -> 226 -> 690 -> 669 -> 251 -> 627 -> 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90. 64910.1262833616, 0.017, 3832, 128 -> 485 -> 113 -> 427 -> 710 -> 780 -> 500 -> 522 -> 417 -> 505 -> 184 -> 14 -> 53 -> 563 -> 164 -> 517 -> 222 -> 13 -> 11 -> 110 -> 357 -> 69 -> 670 -> 202 -> 462 -> 340 -> 228 -> 122 -> 352 -> 204 -> 565 -> 156 -> 318 -> 514 -> 15 -> 368 -> 726 -> 570 -> 257 -> 400 -> 669 -> 470 -> 597 -> 524 -> 692 -> 124 -> 496 -> 18 -> 148 -> 576 -> 319 -> 37 -> 635 -> 353 -> 401 -> 216 -> 79 -> 437 -> 396 -> 532 -> 465 -> 87 -> 430 -> 490 -> 300 -> 719 -> 475 -> 50 -> 160 -> 70 -> 280 -> 201 -> 12 -> 245 -> 662 -> 114 -> 177 -> 96 -> 406 -> 411 -> 675 -> 80 -> 526 -> 474 -> 556 -> 42 -> 327 -> 331 -> 694 -> 671 -> 464 -> 659 -> 83 -> 267 -> 21 -> 781 -> 538 -> 261 -> 120 -> 127 -> 295 -> 596 -> 582 -> 360 -> 604 -> 378 -> 365 -> 652 -> 74 -> 550 -> 371 -> 407 -> 123 -> 775 -> 98 -> 168 -> 345 -> 658 -> 703 -> 159 -> 625 -> 75 -> 52 -> 93 -> 551 -> 408 -> 178 -> 711 -> 66 -> 285 -> 771 -> 449 -> 632 -> 561 -> 197 -> 268 -> 763 -> 508 -> 566 -> 502 -> 249 -> 49 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-> 523 -> 486 -> 617 -> 107 -> 226 -> 432 -> 239 -> 316 -> 718 -> 0 -> 405 -> 751 -> 57 -> 133 -> 311 -> 633 -> 224 -> 797 -> 707 -> 553 -> 138 -> 613 -> 35 -> 193 -> 603 -> 616 -> 795 -> 421 -> 386 -> 262 -> 330 -> 793 -> 651 -> 266 -> 409 -> 673 -> 225 -> 284 -> 714 -> 760 -> 293 -> 328 -> 151 -> 32 -> 100 -> 141 -> 424 -> 765 -> 36 -> 256 -> 737 -> 7 -> 10 -> 723 -> 165 -> 101 -> 624 -> 384 -> 348 -> 194 -> 573 -> 571 -> 167 -> 626 -> 375 -> 306 -> 364 -> 273 -> 86 -> 716 -> 537 -> 656 -> 482 -> 182 -> 730 -> 67 -> 128

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92. 83254.72067836238, 0.034, 3832, 661 -> 853 -> 396 -> 261 -> 583 -> 916 -> 666 -> 537 -> 832 -> 945 -> 492 -> 237 -> 806 -> 993 -> 558
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-> 175 -> 27 -> 570 -> 397 -> 267 -> 902 -> 289 -> 171 -> 526 -> 153 -> 715 -> 409 -> 493 -> 509 -> 239 -> 824 -> 269 -> 856 -> 840 ->
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-> 304 -> 330 -> 157 -> 480 -> 314 -> 521 -> 329 -> 602 -> 55 -> 374 -> 49 -> 887 -> 575 -> 20 -> 784 -> 522 -> 829 -> 76 -> 978 -> 74 ->
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-> 973 -> 84 -> 221 -> 905 -> 468 -> 698 -> 711 -> 186 -> 134 -> 335 -> 412 -> 476 -> 680 -> 510 -> 643 -> 958 -> 788 -> 520 -> 859 ->
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-> 92 -> 4 -> 707 -> 167 -> 900 -> 189 -> 57 -> 610 -> 985 -> 338 -> 904 -> 652 -> 316 -> 385 -> 425 -> 177 -> 395 -> 888 -> 37 -> 43 ->
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93. 96956.85380503102, 0.032, 3832, 633 -> 842 -> 109 -> 70 -> 28 -> 595 -> 942 -> 334 -> 762 -> 491 -> 642 -> 531 -> 437 -> 313 -> 530 ->
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-> 101 -> 654 -> 626 -> 990 -> 555 -> 382 -> 451 -> 420 -> 691 -> 459 -> 807 -> 193 -> 52 -> 326 -> 680 -> 598 -> 384 -> 593 -> 329 ->
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-> 227 -> 949 -> 954 -> 39 -> 53 -> 215 -> 484 -> 186 -> 224 -> 421 -> 447 -> 503 -> 659 -> 920 -> 823 -> 430 -> 624 -> 29 -> 288 -> 216
-> 590 -> 264 -> 390 -> 46 -> 856 -> 886 -> 159 -> 891 -> 287 -> 885 -> 228 -> 25 -> 222 -> 992 -> 754 -> 951 -> 903 -> 99 -> 73 -> 569 ->
413 -> 411 -> 521 -> 369 -> 424 -> 400 -> 183 -> 548 -> 103 -> 767 -> 366 -> 163 -> 788 -> 90 -> 687 -> 174 -> 16 -> 153 -> 922 -> 536 ->
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-> 119 -> 978 -> 763 -> 198 -> 204 -> 937 -> 318 -> 796 -> 117 -> 299 -> 58 -> 327 -> 111 -> 225 -> 692 -> 364 -> 535 -> 718 -> 557 -> 247
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94. 83049.76377576544, 0.035, 3832, 774 -> 936 -> 977 -> 447 -> 209 -> 133 -> 509 -> 180 -> 194 -> 618 -> 544 -> 197 -> 439 -> 528 -> 722
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373 -> 647 -> 558 -> 444 -> 369 -> 660 -> 673 -> 430 -> 188 -> 693 -> 20 -> 62 -> 383 -> 134 -> 184 -> 850 -> 828 -> 847 -> 372 -> 84 -> 786 -> 38 -> 205 -> 30 -> 648 -> 291 -> 923 -> 498 -> 337 -> 604 -> 886 -> 869 -> 58 -> 907 -> 263 -> 242 -> 404 -> 70 -> 232 -> 89 -> 867 -> 674 -> 969 -> 873 -> 739 -> 788 -> 271 -> 960 -> 930 -> 418 -> 274 -> 524 -> 826 -> 545 -> 53 -> 512 -> 93 -> 221 -> 758 -> 305 -> 603 -> 531 -> 854 -> 619 -> 623 -> 565 -> 18 -> 861 -> 569 -> 426 -> 406 -> 243 -> 934 -> 147 -> 958 -> 459 -> 777 -> 313 -> 789 -> 848 -> 403 -> 570 -> 101 -> 520 -> 885 -> 66 -> 310 -> 336 -> 183 -> 434 -> 818 -> 636 -> 476 -> 793 -> 423 -> 470 -> 946 -> 268 -> 704 -> 190 -> 386 -> 481 -> 780 -> 747 -> 295 -> 35 -> 981 -> 740 -> 115 -> 511 -> 513 -> 611 -> 582 -> 882 -> 663 -> 816 -> 371 -> 322 -> 527 -> 725 -> 340 -> 546 -> 988 -> 571 -> 805 -> 176 -> 925 -> 438 -> 149 -> 174 -> 40 -> 56 -> 695 -> 548 -> 348 -> 334 -> 724 -> 658 -> 355 -> 203 -> 61 -> 216 -> 732 -> 237 -> 249 -> 503 -> 179 -> 679 -> 941 -> 612 -> 71 -> 1 -> 776 -> 85 -> 579 -> 292 -> 830 -> 629 -> 452 -> 384 -> 417 -> 575 -> 510 -> 716 -> 49 -> 199 -> 535 -> 720 -> 68 -> 609 -> 804 -> 287 -> 165 -> 151 -> 306 -> 111 -> 230 -> 19 -> 226 -> 784 -> 638 -> 75 -> 399 -> 411 -> 652 -> 875 -> 736 -> 473 -> 831 -> 500 -> 496 -> 120 -> 262 -> 122 -> 601 -> 50 -> 812 -> 170 -> 15 -> 593 -> 266 -> 126 -> 980 -> 967 -> 388 -> 996 -> 152 -> 792 -> 82 -> 976 -> 922 -> 143 -> 157 -> 385 -> 533 -> 131 -> 893 -> 808 -> 626 -> 477 -> 368 -> 412 -> 677 -> 145 -> 24 -> 913 -> 395 -> 415 -> 547 -> 253 -> 622 -> 656 -> 767 -> 914 -> 5 -> 99 -> 686 -> 661 -> 906 -> 4 -> 940 -> 198 -> 505 -> 186 -> 10 -> 871 -> 729 -> 196 -> 350 -> 710 -> 665 -> 339 -> 178 -> 128 -> 182 -> 97 -> 244 -> 532 -> 633 -> 211 -> 664 -> 790 -> 898 -> 991 -> 552 -> 811 -> 303 -> 160 -> 318 -> 172 -> 400 -> 955 -> 756 -> 951 -> 543 -> 685 -> 345 -> 387 -> 441 -> 668 -> 597 -> 728 -> 860 -> 420 -> 675 -> 238 -> 667 -> 113 -> 598 -> 894 -> 731 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-> 41 -> 944 -> 709 -> 589 -> 343 -> 691 -> 408 -> 146 -> 129 -> 689 -> 987 -> 260 -> 972 -> 92 -> 449 -> 559 -> 938 -> 551 -> 999 -> 124 -> 34 -> 166 -> 884 -> 282 -> 577 -> 294 -> 968 -> 424 -> 517 -> 899 -> 451 -> 475 -> 613 -> 959 -> 650 -> 927 -> 835 -> 87 -> 36 -> 918 -> 662 -> 478 -> 909 -> 576 -> 83 -> 416 -> 402 -> 849 -> 319 -> 721 -> 795 -> 495 -> 915 -> 454 -> 587 -> 446 -> 962 -> 572 -> 803 -> 632 -> 33 -> 105 -> 39 -> 624 -> 462 -> 104 -> 501 -> 213 -> 159 -> 911 -> 450 -> 919 -> 761 -> 696 -> 301 -> 687 -> 562 -> 333 -> 156 -> 620 -> 248 -> 312 -> 458 -> 529 -> 754 -> 763 -> 631 -> 96 -> 335 -> 856 -> 60 -> 961 -> 51 -> 912 -> 407 -> 796 -> 504 -> 681 -> 47 -> 963 -> 212 -> 117 -> 771 -> 827 -> 9 -> 680 -> 228 -> 719 -> 278 -> 937 -> 556 -> 256 -> 432 -> 862 -> 381 -> 366 -> 52 -> 353 -> 943 -> 119 -> 666 -> 468 -> 29 -> 659 -> 6 -> 374 -> 590 -> 187 -> 864 -> 219 -> 851 -> 714 -> 329 -> 502 -> 342 -> 469 -> 752 -> 699 -> 344 -> 448 -> 895 -> 132 -> 200 -> 594 -> 655 -> 42 -> 308 -> 741 -> 363 -> 246 -> 296 -> 349 -> 218 -> 744 -> 519 -> 715 -> 311 -> 573 -> 521 -> 358 -> 785 -> 896 -> 74 -> 142 -> 508 -> 309 -> 46 -> 364 -> 678 -> 150 -> 234 -> 523 -> 627 -> 743 -> 554 -> 737 -> 541 -> 834 -> 592 -> 106 -> 518 -> 445 -> 162 -> 817 -> 414 -> 537 -> 997 -> 897 -> 94 -> 491 -> 360 -> 916 -> 3 -> 994 -> 65 -> 616 -> 479 -> 588 -> 669 -> 379 -> 630 -> 555 -> 315 -> 802 -> 797 -> 749 -> 514 -> 838 -> 733 -> 947 -> 483 -> 932 -> 654 -> 14 -> 280 -> 759 -> 578 -> 726 -> 563 -> 783 -> 195 -> 634 -> 347 -> 81 -> 866 -> 800 -> 965 -> 224 -> 794 -> 215 -> 649 -> 887 -> 920 -> 540 -> 428 -> 474 -> 903 -> 204 -> 23 -> 118 -> 392 -> 304 -> 31 -> 676 -> 59 -> 553 -> 734 -> 497 -> 949 -> 410 -> 202 -> 694 -> 945 -> 990 -> 191 -> 607 -> 245 -> 974 -> 376 -> 307 -> 109 -> 751 -> 338 -> 957 -> 878 -> 978 -> 257 -> 904 -> 264 -> 890 -> 398 -> 891 -> 645 -> 610 -> 437 -> 144 -> 549 -> 865 -> 921 -> 584 -> 465 -> 859 -> 455 -> 48 -> 45 -> 154 -> 240 -> 984 -> 464 -> 868 -> 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95. 96959.17020679504, 0.036, 3832, 671 -> 603 -> 814 -> 589 -> 340 -> 527 -> 818 -> 944 -> 503 -> 969 -> 344 -> 46 -> 714 -> 250 -> 213 -> 956 -> 890 -> 600 -> 515 -> 866 -> 977 -> 361 -> 785 -> 10 -> 259 -> 254 -> 661 -> 959 -> 500 -> 414 -> 423 -> 253 -> 85 -> 655 -> 336 -> 211 -> 941 -> 403 -> 395 -> 21 -> 337 -> 990 -> 287 -> 183 -> 215 -> 497 -> 371 -> 773 -> 819 -> 583 -> 894 -> 11 -> 437 -> 940 -> 784 -> 210 -> 566 -> 638 -> 971 -> 616 -> 205 -> 552 -> 964 -> 172 -> 559 -> 687 -> 654 -> 387 -> 342 -> 939 -> 855 -> 660 -> 223 -> 316 -> 87 -> 738 -> 49 -> 892 -> 587 -> 576 -> 966 -> 580 -> 841 -> 811 -> 65 -> 903 -> 507 -> 863 -> 548 -> 981 -> 704 -> 882 -> 957 -> 290 -> 690 -> 42 -> 637 -> 900 -> 885 -> 1 -> 788 -> 700 -> 825 -> 284 -> 827 -> 933 -> 578 -> 586 -> 596 -> 879 -> 314 -> 200 -> 830 -> 444 -> 458 -> 354 -> 131 -> 62 -> 319 -> 816 -> 947 -> 680 -> 228 -> 987 -> 628 -> 298 -> 633 -> 849 -> 93 -> 810 -> 373 -> 104 -> 565 -> 865 -> 783 -> 558 -> 684 -> 6 -> 868 -> 26 -> 81 -> 150 -> 149 -> 546 -> 961 -> 767 -> 781 -> 41 -> 13 -> 954 -> 853 -> 122 -> 847 -> 98 -> 332 -> 446 -> 226 -> 94 -> 782 -> 872 -> 289 -> 460 -> 836 -> 392 -> 490 -> 386 -> 968 -> 652 -> 413 -> 709 -> 804 -> 209 -> 401 -> 15 -> 574 -> 79 -> 176 -> 549 -> 796 -> 601 -> 844 -> 335 -> 931 -> 367 -> 302 -> 494 -> 133 -> 618 -> 139 -> 542 -> 231 -> 234 -> 23 -> 715 -> 162 -> 594 -> 396 -> 561 -> 303 -> 837 -> 357 -> 694 -> 556 -> 716 -> 78 -> 293 -> 207 -> 163 -> 130 -> 38 -> 685 -> 469 -> 4 -> 464 -> 852 -> 158 -> 949 -> 976 -> 820 -> 21 -> 612 -> 263 -> 533 -> 107 -> 878 -> 164 -> 749 -> 657 -> 993 -> 346 -> 873 -> 632 -> 754 -> 283 -> 70 -> 982 -> 29 -> 569 -> 410 -> 616 -> 196 -> 112 -> 440 -> 912 -> 496 -> 806 -> 343 -> 341 -> 908 -> 667 -> 12 -> 421 -> 835 -> 534 -> 424 -> 374 -> 74 -> 842 -> 76 -> 291 -> 665 -> 705 -> 347 -> 585 -> 791 -> 526 -> 656 -> 433 -> 658 -> 19 -> 161 -> 757 -> 33 -> 217 -> 247 -> 86 -> 220 -> 609 -> 678 -> 650 -> 475 -> 120 -> 640 -> 417 -> 334 -> 997 -> 40 -> 765 -> 212 -> 325 -> 775 -> 318 -> 550 -> 722 -> 315 -> 271 -> 521 -> 857 -> 224 -> 57 -> 35 -> 356 -> 232 -> 646 -> 118 -> 208 -> 777 -> 309 -> 776 -> 713 -> 817 -> 134 -> 597 -> 629 -> 945 -> 362 -> 840 -> 157 -> 407 -> 474 -> 376 -> 516 -> 724 -> 439 -> 350 -> 265 -> 8 -> 798 -> 377 -> 485 -> 330 -> 998 -> 831 -> 154 -> 248 -> 967 -> 568 -> 31 -> 508 -> 615 -> 142 -> 829 -> 621 -> 137 -> 955 -> 181 -> 686 -> 204 -> 199 -> 623 -> 599 -> 691 -> 282 -> 980 -> 126 -> 950 -> 524 -> 975 -> 34 -> 311 -> 119 -> 389 -> 696 -> 851 -> 551 -> 753 -> 222 -> 0 -> 809 -> 845 -> 864 -> 946 -> 772 -> 230 -> 187 -> 631 -> 221 -> 240 -> 498 -> 996 -> 619 -> 592 -> 280 -> 260 -> 797 -> 14 -> 294 -> 611 -> 393 -> 459 -> 427 -> 802 -> 124 -> 737 -> 406 -> 333 -> 727 -> 491 -> 937 -> 482 -> 434 -> 888 -> 402 -> 331 -> 659 -> 983 -> 125 -> 510 -> 252 -> 339 -> 182 -> 30 -> 117 -> 348 -> 991 -> 626 -> 789 -> 948 -> 695 -> 604 -> 44 -> 898 -> 101 -> 693 -> 588 -> 513 -> 479 -> 506 -> 906 -> 786 -> 411 -> 666 -> 605 -> 466 -> 16 -> 366 -> 422 -> 285 -> 257 -> 156 -> 452 -> 266 -> 867 -> 703 -> 359 -> 115 -> 261 -> 884 -> 570 -> 258 -> 412 -> 405 -> 471

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913 -> 725 -> 463 -> 225 -> 428 -> 951 -> 48 -> 674 -> 113 -> 719 -> 679 -> 380 -> 644 -> 278 -> 606 -> 364 -> 763 -> 324 -> 512 -> 902
-> 155 -> 670 -> 962 -> 495 -> 706 -> 456 -> 630 -> 391 -> 37 -> 627 -> 812 -> 97 -> 920 -> 152 -> 848 -> 732 -> 923 -> 128 -> 165 -> 735
-> 505 -> 445 -> 774 -> 382 -> 312 -> 747 -> 697 -> 214 -> 965 -> 499 -> 639 -> 201 -> 795 -> 617 -> 907 -> 730 -> 249 -> 82 -> 472 ->
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53 -> 186 -> 978 -> 808 -> 323 -> 233 -> 720 -> 930 -> 52 -> 24 -> 273 -> 541 -> 582 -> 488 -> 32 -> 539 -> 504 -> 138 -> 911 -> 545 ->
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96. 83403.61567223723, 0.036, 3832, 291 -> 29 -> 925 -> 665 -> 170 -> 587 -> 896 -> 548 -> 525 -> 360 -> 273 -> 659 -> 559 -> 716 -> 620
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-> 515 -> 0 -> 923 -> 391 -> 131 -> 357 -> 937 -> 183 -> 601 -> 92 -> 648 -> 952 -> 971 -> 652 -> 684 -> 535 -> 58 -> 761 -> 342 -> 289 ->
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-> 764 -> 446 -> 624 -> 803 -> 189 -> 270 -> 511 -> 167 -> 841 -> 754 -> 2 -> 376 -> 661 -> 439 -> 89 -> 791 -> 834 -> 88 -> 460 -> 678 ->
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-> 365 -> 77 -> 814 -> 726 -> 954 -> 276 -> 117 -> 970 -> 262 -> 627 -> 555 -> 31 -> 463 -> 724 -> 534 -> 702 -> 748 -> 450 -> 521 -> 100
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-> 408 -> 507 -> 654 -> 519 -> 136 -> 432 -> 14 -> 595 -> 452 -> 473 -> 528 -> 735 -> 40 -> 870 -> 457 -> 645 -> 194 -> 706 -> 566 -> 682
-> 730 -> 918 -> 736 -> 316 -> 653 -> 948 -> 318 -> 292 -> 577 -> 382 -> 393 -> 699 -> 508 -> 132 -> 147 -> 32 -> 164 -> 749 -> 480 -> 45
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-> 509 -> 215 -> 213 -> 505 -> 796 -> 789 -> 886 -> 929 -> 965 -> 221 -> 526 -> 424 -> 401 -> 889 -> 574 -> 73 -> 780 -> 728 -> 899 ->
804 -> 866 -> 663 -> 411 -> 255 -> 565 -> 38 -> 390 -> 479 -> 22 -> 545 -> 683 -> 328 -> 477 -> 802 -> 864 -> 658 -> 729 -> 129 -> 470 ->
578 -> 498 -> 12 -> 381 -> 66 -> 594 -> 267 -> 818 -> 634 -> 386 -> 572 -> 727 -> 719 -> 831 -> 175 -> 632 -> 695 -> 504 -> 113 -> 43 ->
554 -> 991 -> 119 -> 461 -> 920 -> 76 -> 207 -> 96 -> 650 -> 993 -> 399 -> 200 -> 388 -> 829 -> 647 -> 675 -> 772 -> 415 -> 139 -> 78 ->
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97. 97301.21265697207, 0.034, 3832, 165 -> 958 -> 450 -> 703 -> 350 -> 722 -> 413 -> 173 -> 469 -> 612 -> 225 -> 422 -> 117 -> 485 -> 900 -> 939 -> 288 -> 701 -> 774 -> 189 -> 805 -> 480 -> 991 -> 777 -> 180 -> 558 -> 367 -> 913 -> 791 -> 364 -> 172 -> 885 -> 43 -> 74 -> 733 -> 277 -> 96 -> 839 -> 474 -> 134 -> 674 -> 834 -> 687 -> 136 -> 713 -> 941 -> 881 -> 220 -> 560 -> 343 -> 103 -> 705 -> 538 -> 503 -> 952 -> 254 -> 592 -> 330 -> 665 -> 546 -> 315 -> 567 -> 888 -> 589 -> 8 -> 535 -> 475 -> 51 -> 635 -> 158 -> 325 -> 334 -> 507 -> 114 -> 42 -> 148 -> 0 -> 328 -> 625 -> 845 -> 292 -> 544 -> 424 -> 516 -> 500 -> 38 -> 276 -> 487 -> 430 -> 832 -> 609 -> 109 -> 739 -> 800 -> 669 -> 305 -> 690 -> 423 -> 488 -> 2 -> 550 -> 316 -> 857 -> 259 -> 438 -> 853 -> 530 -> 11 -> 784 -> 879 -> 97 -> 195 -> 405 -> 386 -> 750 -> 925 -> 520 -> 90 -> 179 -> 199 -> 368 -> 978 -> 806 -> 901 -> 499 -> 228 -> 830 -> 862 -> 675 -> 892 -> 113 -> 796 -> 627 -> 177 -> 618 -> 863 -> 972 -> 570 -> 581 -> 562 -> 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976 -> 772 -> 80 -> 121 -> 817 -> 471 -> 660 -> 643 -> 49 -> 284 -> 301 -> 346 -> 329 -> 572 -> 945 -> 313 -> 819 -> 302 -> 533 -> 663 -> 755 -> 365 -> 604 -> 358 -> 193 -> 721 -> 380 -> 694 -> 999 -> 336 -> 145 -> 738 -> 462 -> 569 -> 425 -> 126 -> 757 -> 106 -> 639 -> 155 -> 743 -> 65 -> 486 -> 318 -> 418 -> 534 -> 765 -> 515 -> 356 -> 668 -> 838 -> 492 -> 34 -> 758 -> 747 -> 928 -> 198 -> 649 -> 899 -> 992 -> 692 -> 523 -> 209 -> 23 -> 271 -> 552 -> 671 -> 539 -> 962 -> 884 -> 723 -> 235 -> 632 -> 918 -> 87 -> 696 -> 848 -> 841 -> 381 -> 435 -> 66 -> 349 -> 125 -> 370 -> 927 -> 326 -> 53 -> 303 -> 332 -> 898 -> 215 -> 883 -> 528 -> 870 -> 887 -> 789 -> 344 -> 13 -> 493 -> 144 -> 156 -> 39 -> 654 -> 101 -> 216 -> 181 -> 414 -> 728 -> 439 -> 565 -> 985 -> 247 -> 308 -> 874 -> 373 -> 837 -> 529 -> 476 -> 149 -> 954 -> 740 -> 341 -> 876 -> 115 -> 843 -> 915 -> 586 -> 250 -> 85 -> 752 -> 923 -> 273 -> 574 -> 385 -> 314 -> 147 -> 460 -> 942 -> 626 -> 223 -> 387 -> 615 -> 829 -> 957 -> 185 -> 201 -> 549 -> 631 -> 996 -> 599 -> 138 -> 909 -> 398 -> 578 -> 374 -> 269 -> 511 -> 810 -> 68 -> 844 -> 437 -> 27 -> 406 -> 826 -> 458 -> 348 -> 214 -> 236 -> 265 -> 960 -> 924 -> 967 -> 361 -> 935 -> 890 -> 375 -> 540 -> 16 -> 673 -> 170 -> 708 -> 745 -> 70 -> 378 -> 429 -> 798 -> 585 -> 321 -> 159 -> 749 -> 979 -> 226 -> 67 -> 122 -> 573 -> 357 -> 112 -> 312 -> 864 -> 583 -> 83 -> 867 -> 390 -> 715 -> 966 -> 827 -> 213 -> 825 -> 531 -> 590 -> 816 -> 240 -> 986 -> 548 -> 44 -> 580 -> 505 -> 491 -> 525 -> 948 -> 176 -> 988 -> 432 -> 557 -> 281 -> 354 -> 990 -> 282 -> 655 -> 52 -> 622 -> 676 -> 776 -> 601 -> 166 -> 658 -> 108 -> 110 -> 160 -> 861 -> 124 -> 922 -> 262 -> 327 -> 453 -> 171 -> 614 -> 94 -> 331 -> 92 -> 18 -> 295 -> 433 -> 536 -> 856 -> 200 -> 20 -> 371 -> 944 -> 766 -> 767 -> 606 -> 285 -> 920 -> 542 -> 461 -> 489 -> 71 -> 852 -> 714 -> 895 -> 786 -> 716 -> 611 -> 473 -> 46 -> 619 -> 821 -> 993 -> 811 -> 780 -> 981 -> 824 -> 788 -> 847 -> 116 -> 188 -> 517 -> 623 -> 203 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98. 82740.58905527258, 0.032, 3832, 875 -> 680 -> 761 -> 702 -> 841 -> 311 -> 110 -> 536 -> 656 -> 852 -> 427 -> 904 -> 812 -> 666 -> 509 -> 459 -> 928 -> 337 -> 152 -> 834 -> 946 -> 502 -> 530 -> 504 -> 380 -> 384 -> 288 -> 273 -> 690 -> 495 -> 992 -> 419 -> 860 -> 853 -> 210 -> 995 -> 422 -> 150 -> 885 -> 201 -> 215 -> 198 -> 493 -> 521 -> 585 -> 381 -> 249 -> 691 -> 588 -> 721 -> 457 -> 617 -> 342 -> 69 -> 646 -> 185 -> 882 -> 68 -> 92 -> 883 -> 619 -> 938 -> 343 -> 397 -> 471 -> 111 -> 978 -> 268 -> 926 -> 851 -> 719 -> 429 -> 775 -> 728 -> 698 -> 322 -> 144 -> 515 -> 979 -> 726 -> 127 -> 211 -> 195 -> 237 -> 423 -> 294 -> 754 -> 117 -> 795 -> 14 -> 122 -> 962 -> 720 -> 238 -> 918 -> 120 -> 614 -> 75 -> 464 -> 828 -> 706 -> 473 -> 235 -> 433 -> 701 -> 968 -> 753 -> 576 -> 591 -> 328 -> 12 -> 807 -> 86 -> 347 -> 153 -> 716 -> 956 -> 360 -> 104 -> 937 -> 236 -> 290 -> 442 -> 949 -> 550 -> 573 -> 878 -> 50 -> 758 -> 474 -> 826 -> 561 -> 266 -> 618 -> 836 -> 63 -> 139 -> 149 -> 172 -> 581 -> 24 -> 545 -> 385 -> 760 -> 284 -> 411 -> 331 -> 942 -> 64 -> 972 -> 265 -> 335 -> 329 -> 168 -> 888 -> 889 -> 340 -> 506 -> 258 -> 405 -> 83 -> 790 -> 697 -> 577 -> 782 -> 7 -> 538 -> 932 -> 911 -> 456 -> 67 -> 124 -> 359 -> 822 -> 786 -> 948 -> 598 -> 855 -> 687 -> 228 -> 752 -> 811 -> 99 -> 609 -> 406 -> 354 -> 437 -> 602 -> 982 -> 363 -> 606 -> 616 -> 334

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99. 97322.59332250235, 0.041, 3832, 329 -> 432 -> 536 -> 131 -> 6 -> 845 -> 209 -> 821 -> 862 -> 875 -> 868 -> 704 -> 248 -> 320 -> 230 ->
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-> 867 -> 134 -> 311 -> 987 -> 892 -> 692 -> 40 -> 636 -> 695 -> 848 -> 779 -> 182 -> 411 -> 191 -> 804 -> 142 -> 470 -> 34 -> 863 -> 121
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100. 83466.8639576767, 0.031, 3832, 744 -> 358 -> 448 -> 403 -> 472 -> 294 -> 188 -> 449 -> 491 -> 68 -> 228 -> 241 -> 649 -> 842 -> 308 ->
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