HIGH PERFORMANCE COMPUTING CS-4373 FINAL PROJECT

Team 2 Project Report

Members:

Austin Lively Luke Runnels David Fantin

The University of Tulsa

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Finding the Determinant of a Matrix

Algorithm Description:

Our implementation of the determinant is based off of LU Decomposition. The premise behind this algorithm is reducing our matrix down to a product a lower-triangular matrix and an upper-triangular matrix.

$$\begin{bmatrix} l_{11} & 0 & \cdots & 0 \\ l_{21} & l_{22} & \cdots & 0 \\ \vdots & \vdots & \ddots & \vdots \\ l_{n1} & l_{n2} & \cdots & l_{nn} \end{bmatrix} \times \begin{bmatrix} u_{11} & u_{12} & \cdots & u_{1n} \\ 0 & u_{22} & \cdots & u_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ 0 & 0 & \cdots & u_{nn} \end{bmatrix} = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \cdots & a_{nn} \end{bmatrix}$$

Rigidly, if U is initially a copy of A, the elements of L and U are represented as

$$l_{ij} = \frac{u_{ji}}{u_{ii}} \tag{1}$$

$$u_{jk} = u_{jk} - l_{ij} \times u_{ik} \tag{2}$$

Fortunately, there is an approach that we used for calculating the determinant based off of LU decomposition without having to create two separate matrices. This approach is outlined in the following pseudocode:

```
for i = 0 to N:
    for j = i+1 to N:
        ratio = A[j][i] / A[i][i];
    for k = 0 to N:
        A[j][k] -= ratio*A[i][k]

1 det = 0
2 for i = 0 to N:
    det *= A[i][i]
```

Libraries used:

The omp.h (OpenMP) library was used in this implementation. The function omp_get_wtime() was used to time the program.

Output from tests: [Note: See the Appendix for all outputs]

Sample output (Size%3A 1000):

```
1 threads
2 File: /home/lar9482/Final_Project_1/m1000x1000.bin
3 Size: 1000
4 Det: +inf
5 Log Det: 743.122063
6 Time: 0.8552089259028435
7
8 2 threads
9 File: /home/lar9482/Final_Project_1/m1000x1000.bin
10 Size: 1000
```

```
11 Det: +inf
12 Log Det: 743.122063
13 Time: 0.4532068748958409
15 4 threads
File: /home/lar9482/Final_Project_1/m1000x1000.bin
17 Size: 1000
18 Det: +inf
19 Log Det: 743.122063
20 Time: 0.2316409051418304
22 8 threads
File: /home/lar9482/Final_Project_1/m1000x1000.bin Size: 1000
25 Det: +inf
26 Log Det: 743.122063
27 Time: 0.1220189523883164
29 16 threads
30 File: \frac{1}{m1000x1000} Final_Project_1/m1000x1000.bin
Size: 1000
32 Det: +inf
33 Log Det: 743.122063
34 Time: 0.0712027358822525
36 32 threads
37 File: /home/lar9482/Final_Project_1/m1000x1000.bin 38 Size: 1000
39 Det: +inf
40 Log Det: 743.122063
41 Time: 1.1239543850533664
```

Results from testing:

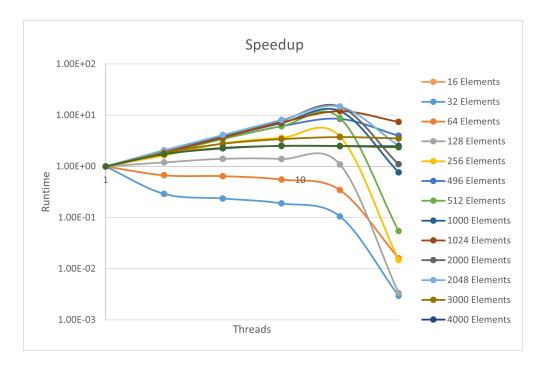


Figure 1: Graph of the speedup that occurs with multiple cores. [LU Decomposition]

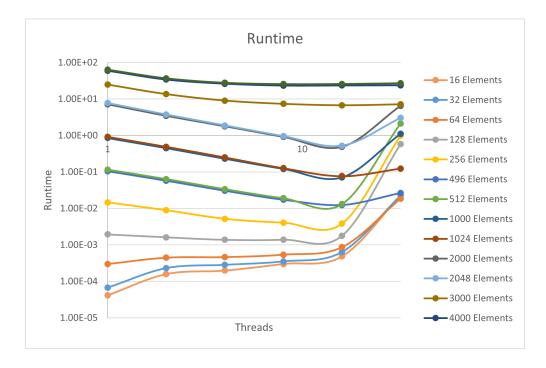


Figure 2: Graph of the runtime for various thread counts. [LU Decomposition]

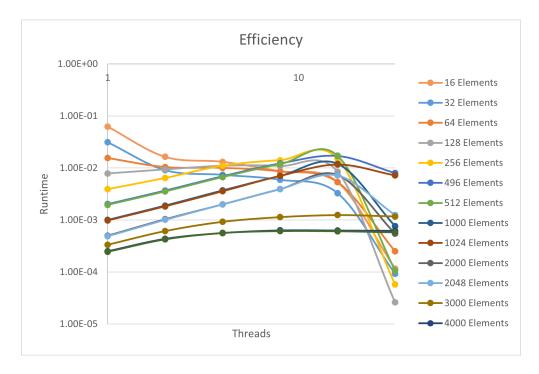


Figure 3: Graph of the efficiency for various thread counts. [LU Decomposition]

Analysis of results:

To analysis our results, we graphed the runtime, speed, efficiency after running our program on 1, 2, 4, 8, and 16 threads.

Scalability:

We can observe volatile trends in Figure 3. Therefore, it is safe to assume that our implementation is weakly scalable.

Determinant Solver - Source Code:

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <math.h>
4 #include <omp.h>
6 //Change this variable to input different files.
  //NOTE: Overflow is an issue for SIZE>=512. Solve this later cuz I'm tired right now.
  #define SIZE 32
int count_digits();
void perform_LU_Decomposition(double *matrix[SIZE], int thread_count);
void read_matrix(double *matrix[SIZE]);
  double calculate_det(double *matrix[SIZE]);
double calculate_log_det(double *matrix[SIZE]);
  int main(int argc, char *argv[]) {
16
17
18
    int thread_count = strtol(argv[1], NULL, 10);
    printf("%d threads\n", thread_count);
19
    double *matrix[SIZE];
20
    int i, j;
21
22
    for (i = 0; i < SIZE; i++) {
      matrix[i] = (double*) malloc(SIZE * sizeof(double));
23
24
25
    read_matrix (matrix);
26
27
28
    double start_time = omp_get_wtime();
    perform_LU_Decomposition(matrix, thread_count);
29
30
    double log_det = calculate_log_det(matrix);
    if (SIZE < 1000) {
31
      double det = calculate_det(matrix);
32
      printf("Det: %lf\n", det);
33
34
    }
35
    else {
      if (log_det < 0) {
36
37
        printf("Det: -");
38
39
      else {
        printf("Det: +");
40
41
      printf("inf\n");
42
43
44
    printf("Log Det: %lf", log_det);
45
    printf("Time: \%1.16f\n\n", omp\_get\_wtime() - start\_time);
46
47
    return 0;
48 }
49
50
51
  void perform_LU_Decomposition(double *matrix[SIZE], int thread_count) {
52
    int i, j, k;
    double ratio;
54
    for (int i = 0; i < SIZE; i++) {
55
56
      //Unfortunately, due to crucial data dependency in the second loop, we can't parallelize
57
       the first loop.
58
      #pragma omp parallel for num_threads(thread_count) private(j, k, ratio)
      for (j = i+1; j < SIZE; j++) {
         ratio = (double) matrix[j][i] / (double) matrix[i][i];
60
         for (k = 0; k < SIZE; k++) {
61
           matrix[j][k] = (double) matrix[j][k] - ratio*matrix[i][k];
62
63
64
```

```
67
68
   double calculate_det(double *matrix[SIZE]) {
69
     int i;
     double det = 1;
70
     #pragma omp parallel for num_threads(thread_count) private(i) reduction(*: det)
71
     for (i = 0; i < SIZE; i++) {
73
       det *= (matrix[i][i]);
74
75
76
     return det;
77 }
78
   double calculate_log_det(double *matrix[SIZE]) {
79
     int i;
80
81
     double det = 0;
     #pragma omp parallel for num_threads(thread_count) private(i) reduction(+: det)
82
83
     for (i = 0; i < SIZE; i++) {
84
85
       det += log10 (fabs (matrix [i][i]));
86
87
88
     return det;
89 }
90 int count_digits() {
91
     int count = 0;
92
     int size = SIZE;
93
     while (size != 0) {
       size /= 10;
94
       count++;
95
96
     }
97
     return count;
98
99
   void read_matrix(double *array[SIZE]) {
     char f_name [50];
       int i, j;
102
        //Create filename
103
       // int num_digits = count_digits();
104
105
       // if (num_digits == 2) {
           sprintf(f_name,"m00%dx00%d.bin", SIZE, SIZE);
106
        // }
107
        // else if (num_digits = 3) {
108
           sprintf(f_name, "m0%dx0%d.bin", SIZE, SIZE);
109
        // }
110
        // else if (num_digits == 4) {
111
           sprintf(f_name,"m%dx%d.bin", SIZE, SIZE);
112
113
114
115
        if (num_digits == 2) {
116
          sprintf(f.name, "/home/lar9482/Final_Project_1/m00%dx00%d.bin", SIZE, SIZE);
117
118
       else if (num_digits == 3) {
119
         sprintf(f_name, "/home/lar9482/Final_Project_1/m0%dx0%d.bin", SIZE, SIZE);
120
121
122
        else if (num\_digits == 4) {
          sprintf(f_name,"/home/lar9482/Final_Project_1/m%dx%d.bin", SIZE, SIZE);
124
126
        printf("File: %s\n", f_name);
127
        printf("Size: %d\n", SIZE);
128
        //Open file
129
       FILE *datafile=fopen(f_name, "rb");
130
131
        //Read elelements
       for (i=0; i < SIZE; i++) {
132
       for (j=0; j < SIZE; j++) {
```

Traveling Salesperson Problem

As a team, we attempted two separate algorithms to solve this problem:

1. Stochastic Nearest Neighbor

Algorithm Description:

Our implementation to solve the traveling sales person problem is based off of a stochastic variation of the nearest neighbor heuristic. The idea behind this approach was to use the nearest neighbor heuristic as normal, with a degree of randomness added in to explore away from the heuristic. Ideally, this would lead to exploring paths away from the nearest neighbor solution, which would result in better outcomes. To accomplish this, a parameter was used to add a degree of randomness (called ODDS). This "ODDS" determines the likely-hood of any individual step, resorting to randomness rather than the heuristic. This implementation is essentially as follows:

```
Starting city = random start;
while there are unvisited cities
if (random chance (ODDS))
Randomly choose an unvisited city
else
Choose the unvisited city closest to the last
```

Parallelization for this algorithm was done using a combination of MPI and OpenMP. MPI was used to split the work across several machines, and OpenMP was used to split the work among the cores of a single machine. In this implementation, the threads on each machine all run the same function (shown above) as many times as possible within the time limit, while remembering the best path they had seen so far.

Libraries used:

The omp.h (OpenMP) and mpi.h (MPI) libraries were used in this implementation. time.h was used for timing the algorithm.

Output from tests: [Note: See the Appendix for all outputs]

Sample output (job.34134.out):

```
[Process 6] Searched 147125 paths and found best path 43643
  [Process 7]
              Searched 145528 paths and found best path 43588
              Searched 146327 paths and found best path 43279
   [Process 1]
              Searched 146170 paths and found best path 43191
  [Process 4]
              Searched 145258 paths and found best path 43080
  [Process 5]
  [Process 2]
              Searched 144154 paths and found best path 43495
   Process 0]
              Searched 146879 paths and found best path 43117
   [Process 3]
              Searched 144559 paths and found best path 43369
  [Process 5] Entering send mode...
10 Reducton Result: [0] 43080 [1] 5
11 [Process 0] Entering recv mode...
12 BestPathCost: 43080
13 227 493 603 844 994 39 816 103 85 294
```

Results from testing:

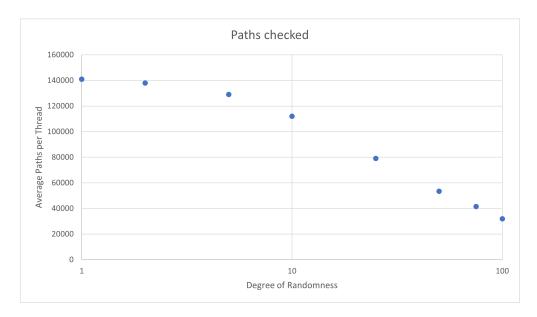


Figure 4: Paths checked per thread based on degree of randomness.

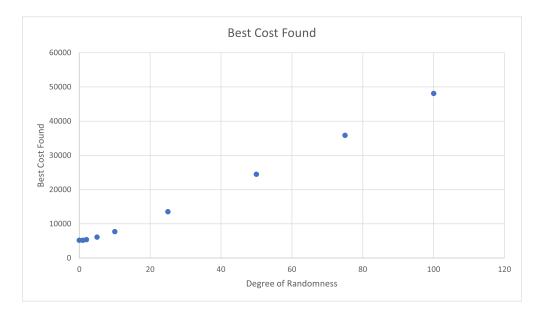


Figure 5: Best cost paths by degree of randomness.

Analysis of results:

This implementation revealed several interesting things about the problem, including the effects of randomness upon both the quality of answer and the quantity of paths checked by the process.

The results showed that the degree of randomness greatly affected the number of paths that the process could explore. The 'rand()' function in our C implementation was slow compared to the heuristic check, so running a higher degree of randomness (leaning heavily on the 'rand()' function rather than the heuristic) decreased the number of paths the process could check within the time constraints.

Figure 5 uses the average among the individual processes on each machine to measure this value. The next thing we found was that the amount of randomness affected the quality of path found during the runtime. This actually shows that a large amount of randomness was harmful to the answer quality the process found, at anything above ODDS = 5%. At and below ODDS = 5%, the answers were very close to the non-random value. To explore this, we ran an experiment with large randomness but more time, to make up for the time issue that 'rand()' applies to the process. We did this by setting the ODDS to 90%, then increasing the time proportional to the gap in the number of paths checked. This resulted in multiplying the time constraint by 4 to attempt to 'even the odds' for the rand() function. By doing this, we were able to get the Average paths checked per process to 145,000, but the best cost path for the process was still at 43,080, more than 8 times the low randomness answer. In conclusion, the Nearest Neighbor heuristic for the Traveling Salesman problem does not benefit from an aspect of randomness, but actually suffers to find a good path under the added randomness.

Scalability:

This implementation seems weekly scalable because there seems to be no indication that the efficiency would drastically increase with more threads.

Stochastic Nearest Neighbor - Source Code:

```
/* Traveling Salesman Problem
   * - Implements basic Heuristics as a search method, with added randomness
       Multiple Nodes with multiple threads
3
        - Nodes handle different starting cities
         - Threads handle different random paths from the same starting city
       Returns the shortest path found in 60ish seconds
9 #include <stdio.h>
10 #include <time.h>
11 #include <stdlib.h>
12 #include inits.h>
13 #include <mpi.h>
14 #include <omp.h>
16 #define ODDS 50
  #define FILENAME "DistanceMatrix1000_v2.csv"
17
18
  int main(int argc, char* argv[]){
19
     // MPI Initializing
20
    MPI_Init(NULL, NULL);
21
22
       int commSz;
      \label{eq:mplcomm_size} $$ MPI\_Comm\_size(MPLCOMM\_WORLD, &commSz) ; $$
23
    int rank:
24
    MPI_Comm_rank(MPLCOMM_WORLD, &rank);
25
      time_t start;
26
      srand((unsigned) time(&start));
27
       // Start Timer
28
      int (*distMat)[1000] = malloc(sizeof(int[1000][1000]));
29
30
       if (distMat==NULL) {
           printf("Memory Allocation Issue: Matrix");
31
           exit(1);
33
    printf("Rank: %d\n", rank);
34
35
       if(rank==0){
          / Read Input
36
37
        FILE* filePointer;
         filePointer = fopen(FILENAME, "r");
38
39
         for (int i = 0; i < 1000; i++){
             for (int j=0; j<1000; j++){
40
          41
42
43
44
             fscanf(filePointer, "\n");
        }
45
46
       // Search Loop
47
    MPI_Bcast(&(distMat[0][0]),1000*1000, MPI_INT, 0, MPLCOMM_WORLD);
48
    // Randomly pick a starting city
49
    int startCity = rand() % 1000;
50
51
    // distMat[A][B] = distance from A->B
52
    int* bestPath;
    int bestCost = INT_MAX;
     printf("Starting Value: %d; Starting City: %d\n", bestCost, startCity);
54
55
      #pragma omp parallel private(rank, startCity)
56
       //Reduction of what exactly?? That could actually be kinda painful to figure out
57
58
      time_t tim;
      int *currPath = calloc(1000, sizeof(int));
59
      currPath[0] = startCity;
60
       int currCost = 0;
61
      time(&tim);
62
       while (tim-start < 60)
63
        int *visited = calloc(1000, sizeof(int)); //Visited array
64
        int prev = startCity;
65
       int next;
```

```
for (int=1; i < 1000; i++){}
68
            //Each Node on the path
69
            if (rand()%100<ODDS){</pre>
70
               // IF RANDOM
71
              do{
                 next = rand()\%1000;
              } while(visited[next]);
73
            } else {
74
75
               for (int j = 0; j < 1000; j++)
                 if (visited[j]) continue;
76
                 printf("distMat[\%d][\%d] < distMat[\%d][\%d] \setminus n", prev, j, prev, next);
77
                 if(distMat[prev][j] < distMat[prev][next]){ // Nearest Neighbor</pre>
78
79
80
81
                 ELSE HEURISTIC
82
83
84
               Count up stats, update visited
             //printf("CurrCost: %d; distMat[%d][%d]=%d\n", currCost, prev, next, distMat[prev][
85
        next]);
            fflush (stdout);
86
            currCost += distMat[prev][next];
87
            currPath[i] = next;
88
            visited[next] = 1;
89
90
            prev = next;
91
92
          //Tack on final step
93
          currCost += distMat[prev][startCity];
          // Check path against our past paths
94
          #pragma omp critical
95
96
            if (currCost<bestCost){</pre>
97
98
               bestCost = currCost;
               bestPath = currPath;
99
100
          time(&tim); //Time check before looking at another path
103
104
      //Argmin from MPI: MINLOC then SEND/RECV path to root
      printf("%d\n", bestCost);
106
      //MINLOC
107
      // IF me == loc, send path to root
108
        IF me == root, get path from loc
109
110
      // Report output
     MPI_Finalize();
111
     return 0;
112
113 }
```

2. Ant Colony Optimization

Algorithm Description:

Our alternative implementation to solve the traveling sales person problem is based off of ant colony optimization. The idea behind this algorithm was to run μ agents. Each agent has access to a randomly generated pheromone table for referencing the current city r and the next potential city u using $\tau[r][u]$. Then, the μ th agent would pick the best unvisited city that based on highest probability to transitioning. Rigidly, the agent attempts to a pick a next city u based on the following equation.

$$\arg\max_{u\in J^{\mu}} [\tau[r][u] \times \eta[r][u]^{\beta}] \tag{3}$$

or the μ th agent selects a city with the probability.

$$P_{\mu}(r,u) = \begin{cases} \frac{\tau(r,u)\eta(r,u)^{\beta}}{\sum_{s \in J^{\mu}} \tau(r,s)\eta(r,s)^{\beta}} & \text{if } u \in J^{\mu} \\ 0 & \text{if } u \notin J^{\mu} \end{cases}$$
(4)

where J^{μ} is the set of all unvisited cities by the μ th agent and β is a positive constant. Each agent learns information through local and global pheromone updates. Local updates, represented in the following equation, are calculated immediately after the best city has been selected by the μ th agent.

$$\tau(r,u) = (1-\rho)\cdot\tau(r,u) + \frac{\rho}{N\cdot L_{GB}}$$
(5)

where ρ is a evaporation parameter, $0 < \rho < 1$, N is the number of cities, and L_{GB} is the length of the best global tour.

Global updates are calculated after every agent has selected a tour. The pheromone updates are detailed in the following equations.

$$\tau(r, u) = (1 - \rho) \cdot \tau(r, u) + \rho \cdot \Delta \tau_{\mu}(r, u) \tag{6}$$

$$\Delta \tau_{\mu}(r, u) = \begin{cases} \frac{Q}{L_{GB}} & \text{if } (r, u) \in \text{global best tour} \\ 0 & \text{otherwise} \end{cases}$$
 (7)

(where Q is a non-positive constant and L_{GB} is the length of the best global tour)

This problem was modelled in the following pseudocode. The implementation has every agent generate a series of solutions and update the pheromone table based on the best observed tour. The basic outline of ant colony solution is

Generating solutions involved the following steps.

```
let local_tour[n] and local_length = 0

while agent still has cities to visit:

calculate the best probability using equation (4)

add the best city to local_tour[n].

update pheromone table with current_city, best_city, and equation (5)

compare and/or update best global tour using local_tour[n]

repeat
```

Global updates to the pheromone table were made in the following steps.

```
for each (r, u) pairing:
    check if (r, u) is in best global tour using equation (7).

if (r, u) is in global tour:
    update t[r][u] using equation (6)

else:
    move to next pairing
```

Libraries used:

The omp.h (OpenMP) library was used in this implementation. The function omp_get_wtime() was used to time the program.

Output from tests: [Note: The outputs are long, so see the Appendix for all outputs]

Results from testing:

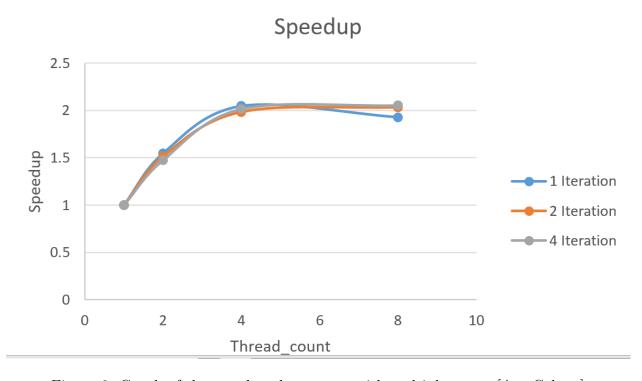


Figure 6: Graph of the speedup that occurs with multiple cores. [Ant Colony]

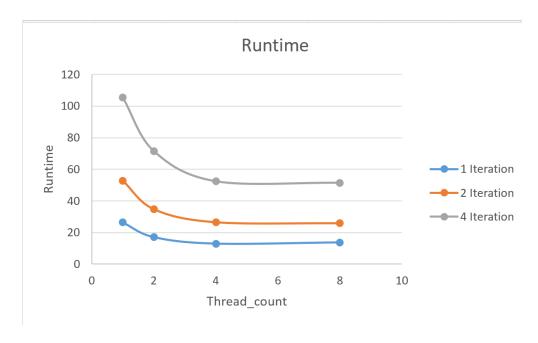


Figure 7: Graph of the runtime for various thread counts. [Ant Colony]



Figure 8: Graph of the efficiency for various thread counts. [Ant Colony]

Analysis of results and scalability:

Based on the concave trends of the efficiency, there is no evidence that this program is strongly-scalable. Therefore, there is weak scalability in this program.

Ant Colony - Source Code:

```
1 #include <stdio.h>
 2 #include <stdlib.h>
3 #include <string.h>
4 #include <math.h>
 5 #include <limits.h>
 6 #include <omp.h>
8 #define SIZE 1000
9 void read_matrix(double graph[SIZE][SIZE]);
void initialize_visited_cities(int* list_cities);
void initialize_transitions(double* transitions[SIZE]);
double heuristic_function(double graph[SIZE][SIZE], int curr_city, int next_city, double
       beta);
14 void generate_solutions (double graph [SIZE] | SIZE], double * transitions [SIZE], int
       starting_city);
void global_update(double* transitions[SIZE], int current_city, int next_city);
void local_update(double* transitions[SIZE], int current_city, int next_city);
void update_transitions(double* transitions[SIZE]);
18 int pairing_global_tour(int current_city, int next_city);
19
20 int num_agents;
21 int thread_count;
22 double phi;
23 double beta;
24 double Q;
26
  int *best_tour;
27 int best_length;
28
  int main(int argc, char** argv) {
   //printf("Testing test\n");
29
30
31
     thread_count = strtol(argv[1], NULL, 10);
     num\_agents = 1;
32
33
     phi = 0.5;
     beta = 2;
34
35
     Q = 5.00;
36
37
     int iterations_max = 1;
38
39
     double graph[SIZE][SIZE];
40
     read_matrix(graph);
41
42
     int i, j;
43
44
     double * transitions [SIZE];
     for (i = 0; i < SIZE; i++) {
45
        transitions[i] = (double*) malloc(SIZE*sizeof(double));
46
47
48
49
       best_tour = malloc((SIZE+1)*sizeof(int));
     best_length = INT\_MAX;
50
51
     initialize_transitions (transitions);
     double start = omp_get_wtime();
54
     int iteration = 0;
55
56
     while (iteration < iterations_max) {</pre>
57
       for (i = 0; i < num\_agents; i++) {
          int starting_city;
58
59
          for (starting_city = 0; starting_city < SIZE; starting_city++) {
            generate_solutions(graph, transitions, starting_city);
60
61
62
63
       update_transitions(transitions);
```

```
iteration++;
66
67
      printf("Length: %d\n", best_length);
68
     for (i = 0; i < SIZE+1; i++) {
69
        if (i % 20 == 0) {
70
71
          printf("\n");
72
73
        printf("%d ->", best_tour[i]);
74
     printf("\nTime: \%1.16f\n\n", omp\_get\_wtime() - start);
75
76
77
     return 0;
78 }
79
80
   void generate_solutions (double graph [SIZE] [SIZE], double * transitions [SIZE], int
       starting_city) {
81
      int current_city = starting_city;
     int remaining_cities = SIZE-1;
82
83
     //If visited [i] = -1, it indicates that the ith has been visited.
84
     int* visited_cities = malloc(SIZE*sizeof(int));
85
      initialize_visited_cities (visited_cities);
86
      visited_cities [starting_city] = -1;
87
88
89
     int *agent_tour = malloc((SIZE+1)*sizeof(int));
90
91
     agent_tour [0] = starting_city;
     int length = 0;
92
     int k = 1;
93
     //printf("agent_tour_start %d\n", starting_city);
94
      while (remaining_cities > 0) {
95
96
       int i;
97
98
        int best_city = -5;
99
        double best_prob = -5.00;
100
       double total_prob = 0.00;
101
       //\operatorname{Calculate} the total probability for all legal cities in visited_cities
103
104
       #pragma omp parallel for num_threads(thread_count) private(i) reduction(+: total_prob)
       for (i = 0; i < SIZE; i++) {
    if (visited_cities[i] != -1 && i != current_city) {
106
            total_prob += (double)(transitions[current_city][i]*heuristic_function(graph,
107
        current_city , i , beta));
          }
109
        //Calculate the local probability.
111
112
       #pragma omp parallel for num_threads(thread_count) private(i) reduction(max: best_prob)
113
        for (i = 0; i < SIZE; i++) {
114
          if (visited_cities[i] != -1 && i != current_city) {
115
            double local_prob = (double)(transitions[current_city][i]*heuristic_function(graph,
116
        current_city , i , beta)) / total_prob;
            if (local_prob > best_prob) {
117
118
              best\_city = i;
119
120
            best_prob = fmax(local_prob , best_prob);
          }
122
        visited\_cities[best\_city] = -1;
124
        length += graph [current_city] [best_city];
125
        //local update for transitions.
126
127
        local_update(transitions, current_city, best_city);
128
       current_city = best_city;
129
```

```
130
        agent_tour[k] = best_city;
132
133
        remaining\_cities —;
134
     length += graph[current_city][starting_city];
136
137
     agent_tour[SIZE] = starting_city;
138
     // \text{ for } (k = 0; k < SIZE+1; k++) 
139
         printf("%d ", agent_tour[k]);
140
     // }
141
     // printf("\n%d\n", length);
142
143
      if (length < best_length) {</pre>
144
145
        best_length = length;
146
147
       #pragma omp parallel for num_threads(thread_count) private(k)
        for (k = 0; k < SIZE+1;k++) {
148
149
          best_tour [k] = agent_tour [k];
150
151
     free (agent_tour);
153
      free (visited_cities);
154
155
156
   void local_update(double* transitions[SIZE], int current_city, int next_city) {
157
     //printf("Updating pheromone from %d to %d\n", current_city, next_city)
158
      transitions [current\_city][next\_city] = (1-phi)*transitions [current\_city][next\_city] + phi
159
        /(SIZE*best_length);
160
161
162
163
   void update_transitions(double* transitions[SIZE]) {
     int i, j;
164
165
     #pragma omp parallel for num_threads(thread_count) private(i, j)
166
167
     for (i = 0; i < SIZE; i++) {
        for (j = 0; j < SIZE; j++) {
168
          double change_transition = 0.00;
169
          int test = pairing_global_tour(i, j);
170
171
          if (test == 1) {
            change_transition = (double) (Q) / (double) (best_length);
173
174
          //printf("Change happening %d", test);
          //printf("Change in transition[%d][%d]: %lf\n ", i, j, change_transition);
176
          transitions[i][j] = ((1 - phi)*transitions[i][j]) + (phi*change\_transition);
177
178
     }
179
180
181
   int pairing_global_tour(int current_city, int next_city) {
182
183
     int result = 0;
      for (int i = 0; i \le (SIZE-1); i++) {
184
        if (best_tour[i] == current_city && best_tour[i+1] == next_city) {
185
186
          result = 1:
187
          break;
188
189
190
     return result;
191 }
193
194
void read_matrix(double graph[SIZE][SIZE]) {
196 char f_name [55];
```

```
197
        //Create filename
198
199
        //sprintf(f_name,"/home/lar9482/Final_Project_2/DistanceMatrix%d_v2.csv", SIZE);
200
        sprintf(f_name, "DistanceMatrix%d_v2.csv", SIZE);
201
        //printf("Reading array file %s of size %dx%d\n",f_name,SIZE,SIZE);
202
        //Open file
203
204
        FILE *datafile=fopen(f_name, "rb");
205
206
        //Read elements
207
        if (!datafile) {
208
          printf("Can't open file \n");
209
210
211
        else {
          //printf("Reading a file now\n");
212
          int i, j = 0;
213
214
          char buffer [SIZE*SIZE];
          while (fgets(buffer, SIZE*SIZE, datafile)) {
215
216
217
            j = 0;
            char *value = strtok(buffer, ",");
218
219
            while (value) {
              double num = strtod (value, NULL);
220
              graph [i][j] = num;
221
              //\operatorname{printf}("\%1\operatorname{f}\n", \operatorname{num});
222
223
              value = strtok (NULL, ", ");
224
              j++;
            i++;
226
227
228
            free (value);
229
230
231
        //printf("Matrix has been read.\n");
233
        return;
234
235
   void initialize_visited_cities(int* list_cities) {
236
237
     int i;
      for (i = 0; i < SIZE; i++) {
238
       list_cities[i] = i;
239
     }
240
241
     return;
242 }
243
   void initialize_transitions(double* transitions[SIZE]) {
244
245
     int i, j;
246
     //\mathrm{srand}(5);
     for (i = 0; i < SIZE; i++) {
247
248
        for (j = 0; j < SIZE; j++) {
          //printf("%1f", (double) ((double)rand() / (double)RAND_MAX));
249
          transitions[i][j] = (double) ((double)rand() / (double)RANDMAX);
250
251
252
      //printf("finished transitions\n");
253
254 }
255
   double heuristic_function(double graph[SIZE][SIZE], int curr_city, int next_city, double
256
      return (double) pow((double) ( ((double) 1.00) / ((double) graph[curr_city][next_city]) ),
257
         beta);
258 }
```

Team contributions

Luke Runnels

Luke implemented the OpenMP programs for LU decomposition for and ant colony optimization for the determinant problem and Traveling Salesperson Problem respectively. He helped research different techniques to solve both problems. He also helped some of the write the report, and edit the presentation.

Austin Lively

Austin implemented the stochastic nearest neighbor algorithm for the Traveling Salesperson Problem, and managed to use MPI and OpenMP in tandem for the implementation. He also made the presentation and helped write some of the report.

David Fantin

David worked on taking Luke's LU decomposition program for the determinant problem and implementing both MPI and OpenMP with it (however, that code was unused). He also helped put together most of the report.

Appendix

Determinant Problem - all outputs

Size%3A 1000

```
1 1 threads
{\tt 2 \ File: /home/lar9482/Final\_Project\_1/m1000x1000.bin}
3 Size: 1000
4 Det: +inf
5 Log Det: 743.122063
6 Time: 0.8552089259028435
9 File: /home/lar9482/Final_Project_1/m1000x1000.bin
10 Size: 1000
11 Det: +inf
12 Log Det: 743.122063
13 Time: 0.4532068748958409
{\tt 16} \ \ {\tt File: /home/lar9482/Final\_Project\_1/m1000x1000.bin}
17 Size: 1000
18 Det: +inf
19 Log Det: 743.122063
20 Time: 0.2316409051418304
22 8 threads
23 File: /home/lar9482/Final_Project_1/m1000x1000.bin
24 Size: 1000
25 Det: +inf
26 Log Det: 743.122063
27 Time: 0.1220189523883164
30 File: /home/lar9482/Final\_Project\_1/m1000x1000.bin
31 Size: 1000
32 Det: +inf
33 Log Det: 743.122063
34 Time: 0.0712027358822525
36 32 threads
37 File: /home/lar9482/Final_Project_1/m1000x1000.bin
38 Size: 1000
39 Det: +inf
40 Log Det: 743.122063
41 Time: 1.1239543850533664
```

```
1 threads
2 File: /home/lar9482/Final_Project_1/m1024x1024.bin
3 Size: 1024
4 Det: +inf
5 Log Det: 766.734112
6 Time: 0.9158545862883329
7
8 2 threads
9 File: /home/lar9482/Final_Project_1/m1024x1024.bin
10 Size: 1024
11 Det: +inf
12 Log Det: 766.734112
13 Time: 0.4892211970873177
14
15 4 threads
16 File: /home/lar9482/Final_Project_1/m1024x1024.bin
17 Size: 1024
```

```
18 Det: +inf
19 Log Det: 766.734112
20\ Time:\ 0.2505814270116389
22 8 threads
23 File: /home/lar9482/Final_Project_1/m1024x1024.bin
24 Size: 1024
25 Det: +inf
26 Log Det: 766.734112
27 Time: 0.1267781811766326
29 16 threads
30 File: /home/lar9482/Final_Project_1/m1024x1024.bin
31 Size: 1024
32 Det: +inf
33 Log Det: 766.734112
34 Time: 0.0765595729462802
36 32 threads
37 File: /home/lar9482/Final_Project_1/m1024x1024.bin
38 Size: 1024
39 Det: +inf
40 Log Det: 766.734112
41 Time: 0.1239477191120386
```

```
1 1 threads
{\tt 2 \ File: /home/lar9482/Final\_Project\_1/m0128x0128.bin}
3 Size: 128
4 Det: -372588862239759235716422166852654858240.000000
5 Log Det: 38.571230
6 Time: 0.0019422979094088
8 2 threads
9 File: /home/lar9482/Final_Project_1/m0128x0128.bin
10 Size: 128
11 Det: -372588862239759235716422166852654858240.000000
12 Log Det: 38.571230
13 Time: 0.0016236300580204
14
15 4 threads
16 File: /home/lar9482/Final_Project_1/m0128x0128.bin
17 Size: 128
19 Log Det: 38.571230
20 Time: 0.0013820840977132
21
22 8 threads
23 File: /home/lar9482/Final_Project_1/m0128x0128.bin
24 Size: 128
26 Log Det: 38.571230
27 Time: 0.0013924879021943
29 16 threads
30 File: /home/lar9482/Final_Project_1/m0128x0128.bin
31 Size: 128
32 Det: -372588862239759311274285892766978277376.000000
33 Log Det: 38.571230
34 Time: 0.0017858017235994
36 32 threads
37 File: /home/lar9482/Final\_Project\_1/m0128x0128.bin
38 Size: 128
39 Det: -372588862239759084600694715024008019968.000000
40 Log Det: 38.571230
41 Time: 0.5805477849207819
```

```
1 1 threads
2 File: /home/lar9482/Final_Project_1/m0016x0016.bin
3 Size: 16
4 Det: 0.000335
5 Log Det: -3.475405
6 Time: 0.0000417362898588
8 2 threads
9 File: /home/lar9482/Final_Project_1/m0016x0016.bin
10 Size: 16
11 Det: 0.000335
12 \text{ Log Det}: -3.475405
13 Time: 0.0001590480096638
14
15 4 threads
 \text{16 File: /home/lar9482/Final\_Project\_1/m0016x0016.bin} \\
17 Size: 16
18 Det: 0.000335
19 Log Det: -3.475405
20\ Time:\ 0.0001982566900551
21
23 File: /home/lar9482/Final_Project_1/m0016x0016.bin
24 Size: 16
25 Det: 0.000335
26 Log Det: -3.475405
27 Time: 0.0003012767992914
29 16 threads
30 File: /home/lar9482/Final\_Project\_1/m0016x0016.bin
31 Size: 16
32 Det: 0.000335
33 Log Det: -3.475405
34 \text{ Time: } 0.0004848632961512
35
36 32 threads
37 File: /home/lar9482/Final_Project_1/m0016x0016.bin
38 Size: 16
39 Det: 0.000335
40 Log Det: -3.475405
41 Time: 0.0224974402226508
```

```
{\tt 2 \ File: /home/lar9482/Final\_Project\_1/m2000x2000.bin}
3 Size: 2000
4 \text{ Det}: +inf
5 Log Det: 1786.384632
6 Time: 7.1684080380946398
8 2 threads
9 File: /home/lar9482/Final_Project_1/m2000x2000.bin
10 Size: 2000
11 Det: +inf
12 Log Det: 1786.384632
13 Time: 3.4646525667048991
15 4 threads
16 File: /home/lar9482/Final_Project_1/m2000x2000.bin
17 Size: 2000
18 Det: +inf
19 Log Det: 1786.384632
20 Time: 1.7934232107363641
21
22 8 threads
23 File: /home/lar9482/Final_Project_1/m2000x2000.bin
```

```
24 Size: 2000
25 Det: +inf
26 Log Det: 1786.384632
27\ Time:\ 0.9142539231106639
29 16 threads
30 File: /home/lar9482/Final_Project_1/m2000x2000.bin
31 Size: 2000
32 Det: +inf
33 Log Det: 1786.384632
34 Time: 0.4889733823947608
35
37 File: /home/lar9482/Final_Project_1/m2000x2000.bin
38 Size: 2000
39 Det: +inf
40 Log Det: 1786.384632
41 Time: 6.5275183026678860
```

```
1 1 threads
2 File: /home/lar9482/Final_Project_1/m2048x2048.bin
3 Size: 2048
4 Det: +inf
5 Log Det: 1838.927339
6 Time: 7.7259128112345934
8 2 threads
9 File: /home/lar9482/Final_Project_1/m2048x2048.bin
10 Size: 2048
11 Det: +inf
12 Log Det: 1838.927339
13 Time: 3.7380560617893934
14
15 4 threads
File: /home/lar9482/Final_Project_1/m2048x2048.bin
17 Size: 2048
18 Det: +inf
19 Log Det: 1838.927339
20 Time: 1.8843039511702955
21
22 8 threads
File: /home/lar9482/Final\_Project\_1/m2048x2048.bin
24 Size: 2048
25 Det: +inf
26 Log Det: 1838.927339
27 Time: 0.9566240622662008
28
29 16 threads
30 File: /home/lar9482/Final_Project_1/m2048x2048.bin
31 Size: 2048
32 Det: +inf
33 Log Det: 1838.927339
34 Time: 0.5248457016423345
36 32 threads
{\tt 37} \ \overline{\tt File}: \ / {\tt home/lar9482/Final\_Project\_1/m2048x2048.bin}
38 Size: 2048
39 Det: +inf
40 Log Det: 1838.927339
41 Time: 3.0181718836538494
```

```
1 threads
2 File: /home/lar9482/Final_Project_1/m0256x0256.bin
3 Size: 256
```

```
4 Det:
    5 Log Det: 115.098409
6 Time: 0.0146755273453891
8 2 threads
9 File: /home/lar9482/Final_Project_1/m0256x0256.bin
10 Size: 256
11 Det:
    12 Log Det: 115.098409
13 Time: 0.0089475261047482
14
15 4 threads
16 File: /home/lar9482/Final_Project_1/m0256x0256.bin
17 Size: 256
18 Det :
    -12543207755145206369111650671075881076584844591557808491925624428011030166457144470631473608871801624
19 Log Det: 115.098409
20 Time: 0.0052077649161220
21
22 8 threads
File: \frac{1}{m0256x0256.bin}
24 Size: 256
25 Det:
    26 Log Det: 115.098409
27 Time: 0.0040686563588679
28
29 16 threads
30 File: /home/lar9482/Final_Project_1/m0256x0256.bin
31 Size: 256
32 Det:
    33 Log Det: 115.098409
34 Time: 0.0038318368606269
35
36 32 threads
37 File: /home/lar9482/Final_Project_1/m0256x0256.bin
38 Size: 256
39 Det:
    40 Log Det: 115.098409
41 Time: 0.9918027860112488
```

```
1 1 threads
2 File: /home/lar9482/Final_Project_1/m3000x3000.bin
3 Size: 3000
4 Det: +inf
5 Log Det: 2945.780634
6 Time: 25.0743106701411307
8 2 threads
9 File: /home/lar9482/Final_Project_1/m3000x3000.bin
10 Size: 3000
11 Det: +inf
12 Log Det: 2945.780634
13 Time: 13.6584573322907090
14
15 4 threads
```

```
16 File: /home/lar9482/Final_Project_1/m3000x3000.bin
17 Size: 3000
18 Det: +inf
19 Log Det: 2945.780634
20 Time: 9.0624369839206338
22 8 threads
File: \frac{1}{m3000x3000}. bin
24 Size: 3000
25 Det: +inf
26 Log Det: 2945.780634
27 Time: 7.3657856858335435
29 16 threads
30 File: /home/lar9482/Final_Project_1/m3000x3000.bin
31 Size: 3000
32 Det: +inf
33 Log Det: 2945.780634
34 Time: 6.7294900962151587
36 32 threads
37 File: /home/lar9482/Final_Project_1/m3000x3000.bin Size: 3000
39 Det: +inf
40 Log Det: 2945.780634
41 Time: 7.1467988681979477
```

```
1 1 threads
{\tt 2 \ File: /home/lar9482/Final\_Project\_1/m0032x0032.bin}
3 Size: 32
4 Det: -0.263326
5 Log Det: -0.579507
6 Time: 0.0000671721063554
8 2 threads
9 File: /home/lar9482/Final_Project_1/m0032x0032.bin
10 \text{ Size}: 32
11 Det: -0.263326
12 \text{ Log Det}: -0.579507
13 Time: 0.0002309870906174
15 4 threads
16 File: /home/lar9482/Final_Project_1/m0032x0032.bin
17 Size: 32
18 Det: -0.263326
19 Log Det: -0.579507
20 Time: 0.0002843323163688
22 8 threads
23 File: /home/lar9482/Final_Project_1/m0032x0032.bin
24 Size: 32
25 Det: -0.263326
26 \text{ Log Det}: -0.579507
27 Time: 0.0003536217845976
29 16 threads
30 File: /home/lar9482/Final_Project_1/m0032x0032.bin
31 Size: 32
32 Det: -0.263326
33 Log Det: -0.579507
34 Time: 0.0006395578384399
35
36 32 threads
37 File: /home/lar9482/Final_Project_1/m0032x0032.bin
38 Size: 32
39 Det: -0.263326
```

```
40 Log Det: -0.579507
41 Time: 0.0226851953193545
```

```
1 1 threads
2 File: /home/lar9482/Final_Project_1/m4000x4000.bin
3 Size: 4000
4 Det: +inf
5 Log Det: 4176.335020
6 Time: 59.3883682219311595
8 2 threads
9 File: /home/lar9482/Final_Project_1/m4000x4000.bin
10 Size: 4000
11 Det: +inf
12 Log Det: 4176.335020
13 Time: 34.2185549330897629
14
15 4 threads
16 File: /home/lar9482/Final_Project_1/m4000x4000.bin
17 Size: 4000
18 \operatorname{Det}: +inf
19 Log Det: 4176.335020
20 Time: 26.3845605687238276
21
22 8 threads
File: /home/lar9482/Final\_Project\_1/m4000x4000.bin
24 Size: 4000
25 Det: +inf
26 Log Det: 4176.335020
27 Time: 23.5257420139387250
28
29 16 threads
30 File: \frac{1}{m4000x4000}. bin
31 Size: 4000
32 Det: +inf
33 Log Det: 4176.335020
34 Time: 23.6734951878897846
35
36 32 threads
{\tt 37} \ \overline{\tt File}: \ / {\tt home/lar9482/Final\_Project\_1/m4000x4000.bin}
38 Size: 4000
39 Det: +inf
40 Log Det: 4176.335020
41 Time: 23.9503137781284750
```

```
1 threads
2 File: /home/lar9482/Final_Project_1/m4096x4096.bin
3 Size: 4096
4 \text{ Det}: +inf
5 Log Det: 4297.334290
6 Time: 63.9182369438931346
8 2 threads
9 File: /home/lar9482/Final_Project_1/m4096x4096.bin
10 Size: 4096
11 Det: +inf
12 Log Det: 4297.334290
13 Time: 36.8999505229294300
14
{\tt 16} \ \ {\tt File: /home/lar9482/Final\_Project\_1/m4096x4096.bin}
17 Size: 4096
18 Det: +inf
19 Log Det: 4297.334290
20 Time: 27.8421836658380926
```

```
22 8 threads
23 File: /home/lar9482/Final_Project_1/m4096x4096.bin
24 Size: 4096
25 Det: +inf
26 Log Det: 4297.334290
27 Time: 25.5887725781649351
28
29 16 threads
30 File: /home/lar9482/Final_Project_1/m4096x4096.bin
31 Size: 4096
32 Det: +inf
33 Log Det: 4297.334290
34 Time: 25.7578369048424065
35
36 32 threads
37 File: /home/lar9482/Final\_Project\_1/m4096x4096.bin
38 Size: 4096
39 Det: +inf
40 Log Det: 4297.334290
41 Time: 27.0827914997935295
```

33 Log Det: 292.774376 34 Time: 0.0124078299850225

```
1 1 threads
2 File: /home/lar9482/Final_Project_1/m0496x0496.bin
3 Size: 496
   5 Log Det: 292.774376
6 Time: 0.1050216848962009
8 2 threads
9 File: /home/lar9482/Final_Project_1/m0496x0496.bin
10 Size: 496
11 Det:
   12 Log Det: 292.774376
13 Time: 0.0576045550405979
14
15 4 threads
File: /home/lar9482/Final_Project_1/m0496x0496.bin
17 Size: 496
18 Det :
   19 Log Det: 292.774376
20 Time: 0.0305056408978999
21
22 8 threads
File: \frac{1}{m0496x0496.bin}
24 Size: 496
25 Det:
   26 Log Det: 292.774376
27 Time: 0.0172814643010497
29 16 threads
30 File: /home/lar9482/Final_Project_1/m0496x0496.bin
31 Size: 496
32 Det:
```

```
36 32 threads
37 File: /home/lar9482/Final_Project_1/m0496x0496.bin
38 Size: 496
39 Det:
   40 Log Det: 292.774376
41 Time: 0.0265024350956082
 Size%3A 512
1 1 threads
2 File: /home/lar9482/Final_Project_1/m0512x0512.bin
3 Size: 512
4 Det:
    5 Log Det: 304.280788
6 Time: 0.1156383547931910
8 2 threads
9 File: /home/lar9482/Final_Project_1/m0512x0512.bin
10 Size: 512
11 Det:
    12 Log Det: 304.280788
13 Time: 0.0639014630578458
14
File: /home/lar9482/Final_Project_1/m0512x0512.bin
17 Size: 512
18 Det:
    19 Log Det: 304.280788
20 Time: 0.0337760969996452
File: /home/lar9482/Final_Project_1/m0512x0512.bin
24 Size: 512
25 Det:
    26 Log Det: 304.280788
27 Time: 0.0190623099915683
29 16 threads
30 File: /home/lar9482/Final_Project_1/m0512x0512.bin
31 Size: 512
32 Det:
    33 Log Det: 304.280788
34\ Time:\ 0.0131535837426782
35
37 File: /home/lar9482/Final_Project_1/m0512x0512.bin
38 Size: 512
39 Det:
    40 Log Det: 304.280788
41 Time: 2.1167190782725811
 Size%3A 64
```

1 1 threads

```
2 File: /home/lar9482/Final_Project_1/m0064x0064.bin
3 Size: 64
4 Det: 37889891.273514
5 Log Det: 7.578523
6 Time: 0.0002983249723911
8 2 threads
9 File: /home/lar9482/Final_Project_1/m0064x0064.bin
10 Size: 64
11 Det: 37889891.273514
12 Log Det: 7.578523
13 Time: 0.0004452797584236
15 4 threads
File: /home/lar9482/Final_Project_1/m0064x0064.bin
17 Size: 64
18 Det: 37889891.273514
19 Log Det: 7.578523
20 Time: 0.0004620826803148
22 8 threads
File: /home/lar9482/Final\_Project\_1/m0064x0064.bin
24 Size: 64
25 Det: 37889891.273514
26 Log Det: 7.578523
27\ Time:\ 0.0005399738438427
29 16 threads
30 File: \frac{1}{m0064x0064.bin}
31 Size: 64
32 Det: 37889891.273514
33 Log Det: 7.578523
34\ Time:\ 0.0008668368682265
36 32 threads
37 File: /home/lar9482/Final_Project_1/m0064x0064.bin
38 Size: 64
39 Det: 37889891.273514
40 Log Det: 7.578523
41 Time: 0.0186105351895094
```

Traveling Salesperson Problem - all outputs

1. Stochastic Nearest Neighbor

job.34117.out

```
1 Rank: 0
2 Rank: 1
з Rank: 2
4 Rank: 3
5 Rank: 6
6 Rank: 5
7 Rank: 7
9 [Process 6] Searched 31752 paths and found best path 48491
10 [Process 2] Searched 32269 paths and found best path 48532
11 [Process 0] Searched 32908 paths and found best path 48481
12 [Process 1] Searched 32111 paths and found best path 48122
              Searched 32473 paths and found best path 48753
14 [Process 7] Searched 32803 paths and found best path 48324
15 [Process 5] Searched 32772 paths and found best path 48621
16 [Process 4] Searched 33356 paths and found best path 48548
17 [Process 1] Entering send mode...
18 Reducton Result: [0] 48122 [1] 1
```

```
19 [Process 0] Entering recv mode...
20 BestPathCost: 48122
21 56 400 598 354 892 68 388 792 327 572
  job.34118.out
  [Process 3] Searched 40927 paths and found best path 36064
  Process 0 Searched 41363 paths and found best path 35868
3 [Process 2] Searched 41491 paths and found best path 36163
4 [Process 1] Searched 41971 paths and found best path 36347
   Process 6] Searched 41024 paths and found best path 36445
6 Process 7 Searched 41267 paths and found best path 36611
7 [Process 5] Searched 41731 paths and found best path 36430
8 [Process 4] Searched 41673 paths and found best path 36137
9 Reducton Result: [0] 35868 [1] 0
10 Best Path Found Cost: 35868
11 142 779 421 474 799 898 147 984 927 98
  job.34119.out
[Process 1] Searched 53491 paths and found best path 24815
2 [Process 0] Searched 53567 paths and found best path 24553
3 [Process 4] Searched 53548 paths and found best path 24668
   [Process 6] Searched 54271 paths and found best path 24522
5 [Process 7] Searched 53692 paths and found best path 24483
6 Process 3 Searched 53520 paths and found best path 24665
7 [Process 2] Searched 53852 paths and found best path 24904
  [Process 5] Searched 53467 paths and found best path 24960
9 Reducton Result: [0] 24483 [1] 7
10 [Process 0] Entering recv mode...
11 Process 7 Entering send mode...
12 BestPathCost: 24483
13 427 2 998 926 59 320 903 111 42 985
  job.34121.out
1 [Process 1] Searched 79418 paths and found best path 13897
2 Process 6 Searched 79711 paths and found best path 13574
3 [Process 7] Searched 78993 paths and found best path 13667
4 [Process 0] Searched 79643 paths and found best path 13871
   Process 2 Searched 79703 paths and found best path 13932
6 [Process 3] Searched 79169 paths and found best path 13684
7 [Process 5] Searched 79609 paths and found best path 13829
8 [Process 4] Searched 79935 paths and found best path 13750
9 Reducton Result: [0] 13574 [1] 6
10 [Process 0] Entering recv mode...
11 [Process 6] Entering send mode...
12 BestPathCost: 13574
13 694 33 73 420 69 750 383 29 16 123
  job.34122.out
  [Process 0] Searched 113655 paths and found best path 8006
  [Process 6] Searched 113360 paths and found best path 7927
3 [Process 7] Searched 113016 paths and found best path 7886
4 [Process 1] Searched 111123 paths and found best path 7930
5 [Process 2] Searched 113405 paths and found best path 7731
  [Process 3] Searched 112385 paths and found best path 7962 [Process 5] Searched 112865 paths and found best path 7835
8 [Process 4] Searched 112703 paths and found best path 7862
9 Reducton Result: [0] 7731 [1] 2
```

job.34123.out

11 BestPathCost: 7731

10 [Process 0] Entering recv mode...

12 2 171 21 195 43 101 24 64 28 87 13 [Process 2] Entering send mode...

```
1 [Process 0] Searched 129235 paths and found best path 6218
2 [Process 1] Searched 129463 paths and found best path 6203
3 [Process 6] Searched 129579 paths and found best path 6212
4 [Process 7] Searched 128852 paths and found best path 6191
5 [Process 2] Searched 129206 paths and found best path 6226
6 [Process 3] Searched 128647 paths and found best path 6191
7 [Process 4] Searched 129272 paths and found best path 6255
8 [Process 5] Searched 128966 paths and found best path 6255
9 [Process 5] Entering send mode...
10 Reducton Result: [0] 6157 [1] 5
11 [Process 0] Entering recv mode...
12 BestPathCost: 6157
13 470 80 65 194 105 229 72 1 131 11
```

job.34124.out

```
[Process 0] Searched 139147 paths and found best path 5460
[Process 1] Searched 138491 paths and found best path 5391
[Process 6] Searched 139416 paths and found best path 5411
[Process 7] Searched 138845 paths and found best path 5425
[Process 2] Searched 138729 paths and found best path 5359
[Process 3] Searched 139074 paths and found best path 5361
[Process 4] Searched 139243 paths and found best path 5421
[Process 5] Searched 137824 paths and found best path 5421
[Process 5] Searched 137824 paths and found best path 5427
[Process 0] Entering recv mode...

BestPathCost: 5359
[1] 2
[Process 2] Entering send mode...
```

job.34125.out

```
1 [Process 0] Searched 141838 paths and found best path 5237
2 [Process 1] Searched 142225 paths and found best path 5241
3 [Process 6] Searched 141381 paths and found best path 5238
4 [Process 7] Searched 142235 paths and found best path 5227
5 [Process 2] Searched 141584 paths and found best path 5221
6 [Process 3] Searched 141248 paths and found best path 5220
7 [Process 4] Searched 140301 paths and found best path 5242
8 [Process 5] Searched 141534 paths and found best path 5260
9 [Process 3] Entering send mode...
10 Reducton Result: [0] 5220 [1] 3
11 [Process 0] Entering recv mode...
12 BestPathCost: 5220
13 511 170 310 94 122 50 149 171 21 195
```

job.34126.out

```
[Process 0] Searched 144144 paths and found best path 5227
[Process 1] Searched 143882 paths and found best path 5234
[Process 6] Searched 143767 paths and found best path 5265
[Process 7] Searched 144037 paths and found best path 5268
[Process 2] Searched 143926 paths and found best path 5269
[Process 3] Searched 143748 paths and found best path 5279
[Process 4] Searched 144194 paths and found best path 5221
[Process 5] Searched 144076 paths and found best path 5274

Reducton Result: [0] 5221 [1] 4
[Process 0] Entering recv mode...

BestPathCost: 5221

263 0 73 98 77 127 138 186 81 48

[Process 4] Entering send mode...
```

job.34134.out

```
Process 6 Searched 147125 paths and found best path 43643
Frocess 7 Searched 145528 paths and found best path 43588
Frocess 1 Searched 146327 paths and found best path 43279
Frocess 4 Searched 146170 paths and found best path 43191
Frocess 5 Searched 145258 paths and found best path 43080
```

```
6 [Process 2] Searched 144154 paths and found best path 43495
7 [Process 0] Searched 146879 paths and found best path 43117
8 [Process 3] Searched 144559 paths and found best path 43369
9 [Process 5] Entering send mode...
10 Reducton Result: [0] 43080 [1] 5
11 [Process 0] Entering recv mode...
12 BestPathCost: 43080
13 227 493 603 844 994 39 816 103 85 294
```

2. Ant Colony

1 Iteration

```
1 Length: 5659
                            1 \ ->\! 265 \ ->\! 148 \ ->\! 843 \ ->\! 966 \ ->\! 718 \ ->\! 535 \ ->\! 336 \ ->\! 776 \ ->\! 472 \ ->\! 208 \ ->\! 827 \ ->\! 151 \ ->\! 31 \ ->\! 916 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ ->\! 197 \ -
                                                                                     ->359 ->915 ->846 ->476 ->
         4\ 417\ ->421\ ->872\ ->120\ ->929\ ->339\ ->452\ ->225\ ->291\ ->647\ ->217\ ->464\ ->432\ ->185\ ->75\ ->51
                                                                                     ->976 ->218 ->124 ->180 ->
         5\ 54\ ->\!243\ ->\!994\ ->\!325\ ->\!282\ ->\!689\ ->\!254\ ->\!738\ ->\!366\ ->\!166\ ->\!161\ ->\!711\ ->\!593\ ->\!89\ ->\!717\ ->\!899
                                                                                           ->302 ->534 ->855 ->938 ->
         6\ 666\ ->741\ ->764\ ->102\ ->99\ ->312\ ->747\ ->238\ ->413\ ->576\ ->429\ ->986\ ->815\ ->645\ ->724\ ->168
                                                                                                 ->809 ->25 ->736 ->676 ->
                            387 \; -> 948 \; -> 700 \; -> 260 \; -> 389 \; -> 989 \; -> 920 \; -> 223 \; -> 435 \; -> 437 \; -> 408 \; -> 457 \; -> 412 \; -> 658 \; -> 913 \; -> 437 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 4
                                                                                             ->162 ->353 ->816 ->540 ->346 ->
                            370 \ ->\! 252 \ ->\! 453 \ ->\! 561 \ ->\! 844 \ ->\! 491 \ ->\! 244 \ ->\! 833 \ ->\! 935 \ ->\! 713 \ ->\! 517 \ ->\! 859 \ ->\! 975 \ ->\! 383 \ ->\! 769
                                                                                       ->708 ->344 ->44 ->129 ->614 ->
       9\ 117\ -{>}438\ -{>}607\ -{>}329\ -{>}665\ -{>}152\ -{>}735\ -{>}782\ -{>}473\ -{>}581\ -{>}599\ -{>}481\ -{>}202\ -{>}943\ -{>}349
                                                                                     ->267 ->489 ->264 ->562 ->471 ->
                              632 \ -> 621 \ -> 431 \ -> 497 \ -> 115 \ -> 0 \ -> 73 \ -> 840 \ -> 420 \ -> 69 \ -> 157 \ -> 6 \ -> 281 \ -> 555 \ -> 898 \ -> 549 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -
                                                                                     ->817 ->794 ->884 ->999 ->
                              860 \ -{>}245 \ -{>}894 \ -{>}712 \ -{>}591 \ -{>}703 \ -{>}360 \ -{>}767 \ -{>}153 \ -{>}781 \ -{>}428 \ -{>}459 \ -{>}122 \ -{>}173 \ -{>}173 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 
                                                                                     ->951 ->227 ->753 ->221 ->692 ->
                            142 \ ->272 \ ->8 \ ->998 \ ->959 \ ->460 \ ->554 \ ->836 \ ->983 \ ->618 \ ->326 \ ->246 \ ->198 \ ->634 \ ->887 \ ->262 \ ->262 \ ->246 \ ->198 \ ->634 \ ->887 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ 
                                                                                             ->914 ->289 ->396 ->132 ->
13 \ 199 \ -> 556 \ -> 657 \ -> 502 \ -> 610 \ -> 671 \ -> 337 \ -> 258 \ -> 615 \ -> 158 \ -> 970 \ -> 24 \ -> 182 \ -> 678 \ -> 511 \ -> 328 \ -> 678 \ -> 110 \ -> 100 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ 
                                                                                                 ->533 ->490 ->695 ->373 ->
14 \ 597 \ ->59 \ ->320 \ ->829 \ ->411 \ ->509 \ ->979 \ ->219 \ ->295 \ ->485 \ ->771 \ ->654 \ ->636 \ ->88 \ ->492 \ ->602
                                                                                           ->589 ->500 ->187 ->340 ->
                              266 \ -> 82 \ -> 100 \ -> 945 \ -> 759 \ -> 971 \ -> 826 \ -> 830 \ -> 41 \ -> 249 \ -> 936 \ -> 922 \ -> 877 \ -> 17 \ -> 441 \ -> 35 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \
                                                                                     ->10 ->477 ->150 ->280 ->
                            558 \ -> 322 \ -> 637 \ -> 222 \ -> 778 \ -> 910 \ -> 352 \ -> 135 \ -> 680 \ -> 341 \ -> 777 \ -> 729 \ -> 60 \ -> 950 \ -> 196 \ -> 463 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 19
                                                                                                 ->317 ->427 ->235 ->644 ->
                              932 \;\; -> 480 \;\; -> 97 \;\; -> 381 \;\; -> 362 \;\; -> 415 \;\; -> 131 \;\; -> 768 \;\; -> 499 \;\; -> 2 \;\; -> 210 \;\; -> 5 \;\; -> 722 \;\; -> 440 \;\; -> 191 \;\; -> 977 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; ->
                                                                                             ->145 ->789 ->171 ->292 ->
                            309 \ -> 631 \ -> 486 \ -> 236 \ -> 84 \ -> 912 \ -> 766 \ -> 978 \ -> 573 \ -> 677 \ -> 681 \ -> 209 \ -> 744 \ -> 40 \ -> 193 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123
                                                                                     ->583 ->369 ->832 ->174 ->
                            799 \ ->\! 46 \ ->\! 83 \ ->\! 574 \ ->\! 824 \ ->\! 315 \ ->\! 116 \ ->\! 660 \ ->\! 564 \ ->\! 167 \ ->\! 307 \ ->\! 313 \ ->\! 103 \ ->\! 433 \ ->\! 867 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ ->\! 610 \ 
                                                                                           ->586 ->806 ->363 ->284 ->
                            204 -> 93 -> 140 -> 775 -> 685 -> 942 -> 375 -> 550 -> 523 -> 847 -> 954 -> 176 -> 160 -> 953 -> 125 -> 504 -> 176 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 1
                                                                                                 ->393 ->105 ->673 ->622 ->
                              469 \; -> 345 \; -> 585 \; -> 495 \; -> 807 \; -> 114 \; -> 119 \; -> 294 \; -> 572 \; -> 487 \; -> 907 \; -> 733 \; -> 95 \; -> 321 \; -> 189 \; -> 624 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 10
                                                                                               ->896 ->895 ->358 ->34 ->
                              740 \ -> 852 \ -> 802 \ -> 400 \ -> 314 \ -> 211 \ -> 172 \ -> 968 \ -> 965 \ -> 955 \ -> 770 \ -> 392 \ -> 967 \ -> 828 \ -> 287 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                                           ->761 ->141 ->465 ->958 ->897 ->
                            888 \ -> 566 \ -> 361 \ -> 80 \ -> 165 \ -> 21 \ -> 587 \ -> 548 \ -> 605 \ -> 659 \ -> 808 \ -> 739 \ -> 964 \ -> 719 \ -> 841 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311 \ -> 311
                                                                                   ->752 ->571 ->625 ->969 ->
                            835 \ -> 793 \ -> 404 \ -> 380 \ -> 324 \ -> 672 \ -> 68 \ -> 669 \ -> 594 \ -> 33 \ -> 350 \ -> 330 \ -> 48 \ -> 261 \ -> 568 \ -> 892 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 \ -> 680 
                                                                                             ->797 ->728 ->575 ->91 ->
                            918 \ -> 923 \ -> 306 \ -> 584 \ -> 374 \ -> 908 \ -> 937 \ -> 748 \ -> 300 \ -> 447 \ -> 444 \ -> 144 \ -> 419 \ -> 251 \ -> 259 \ -> 20
                                                                                                 ->228 ->720 ->611 ->494 ->
26\ 110\ ->862\ ->516\ ->368\ ->842\ ->274\ ->530\ ->293\ ->85\ ->376\ ->449\ ->763\ ->949\ ->397\ ->643\ ->755
                                                                                                 ->751 ->820 ->783 ->595 ->
                            532 \ -> 790 \ -> 290 \ -> 904 \ -> 220 \ -> 127 \ -> 206 \ -> 462 \ -> 714 \ -> 800 \ -> 342 \ -> 704 \ -> 569 \ -> 112 \ -> 917 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 112 \ -> 1
                                                                                 ->445 ->963 ->687 ->347 ->906 ->
28 \ 933 \ ->200 \ ->522 \ ->118 \ ->310 \ ->94 \ ->333 \ ->406 \ ->921 \ ->960 \ ->995 \ ->757 \ ->939 \ ->143 \ ->401 \ ->508 \ ->960 \ ->995 \ ->757 \ ->939 \ ->143 \ ->401 \ ->508 \ ->960 \ ->995 \ ->757 \ ->939 \ ->143 \ ->401 \ ->508 \ ->140 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->
                                                                ->693 ->475 ->443 ->512 ->
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29 263 ->804 ->686 ->382 ->524 ->398 ->318 ->372 ->541 ->442 ->107 ->214 ->706 ->407 ->869
                                                                                    ->170 ->623 ->467 ->183 ->616 ->
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                                                                                                ->825 ->134 ->255 ->43 ->
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                                                                                        ->81 ->656 ->505 ->875 ->
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                                                                                        ->365 ->696 ->186 ->104 ->
34\ 11\ -> 384\ -> 664\ -> 461\ -> 439\ -> 579\ -> 130\ -> 371\ -> 837\ -> 596\ -> 405\ -> 608\ -> 108\ -> 850\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 902\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 111\ -> 1
                                                                                                ->425 ->474 ->319 ->7 ->
35 434 ->268 ->448 ->334 ->745 ->205 ->864 ->754 ->725 ->296 ->940 ->518 ->515 ->86 ->684 ->848
                                                                                                    ->698 ->546 ->980 ->796 ->
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                                                                                                  ->424 ->539 ->354 ->831 ->
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                                                                                        ->651 ->484 ->957 ->66 ->
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                                                                                                    ->598 ->147 ->675 ->931 ->
                             ->36 ->451 ->478 ->580 ->
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44 \ 229 \ -> 649 \ -> 184 \ -> 803 \ -> 247 \ -> 468 \ -> 237 \ -> 192 \ -> 49 \ -> 779 \ -> 270 \ -> 762 \ -> 822 \ -> 732 \ -> 838 \ -> 90
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                                                                                        ->590 ->635 ->926 ->239 ->
                               691 \ -> 742 \ -> 32 \ -> 653 \ -> 544 \ -> 19 \ -> 42 \ -> 905 \ -> 16 \ -> 29 \ -> 538 \ -> 985 \ -> 982 \ -> 903 \ -> 188 \ -> 819
                                                                                        ->126 ->488 ->395 ->215 ->
                               567 \; - > 331 \; - > 136 \; - > 503 \; - > 231 \; - > 101 \; - > 45 \; - > 39 \; - > 121 \; - > 627 \; - > 650 \; - > 416 \; - > 746 \; - > 76 \; - > 483 \; - > 543 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \; - > 1000 \;
                                                                                            ->519 ->224 ->298 ->64 ->
48 \ 12 \ -> 606 \ -> 690 \ -> 930 \ -> 613 \ -> 216 \ -> 242 \ -> 674 \ -> 501 \ -> 71 \ -> 527 \ -> 858 \ -> 279 \ -> 169 \ -> 305 \ -> 988 \ -> 279 \ -> 169 \ -> 305 \ -> 988 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -
                                                                                        ->367 ->701 ->749 ->633 ->
                             388 \ -> 723 \ -> 391 \ -> 552 \ -> 641 \ -> 278 \ -> 946 \ -> 233 \ -> 814 \ -> 525 \ -> 271 \ -> 795 \ -> 630 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 785 \ -> 203 \ -> 203 \ -> 203 \ -> 2
                                                                                                ->890 ->788 ->987 ->273 ->577 ->
                             992 \ ->\!873 \ ->\!521 \ ->\!642 \ ->\!277 \ ->\!38 \ ->\!163 \ ->\!275 \ ->\!682 \ ->\!50 \ ->\!149 \ ->\!390 \ ->\!774 \ ->\!851 \ ->\!551 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323 \ ->\!323
                                                                                            ->456 ->436 ->178 ->973 ->
51 \quad 248 \quad ->15 \quad ->889 \quad ->506 \quad ->47 \quad ->638 \quad ->493 \quad ->900 \quad ->528 \quad ->997 \quad ->791 \quad ->813 \quad ->62 \quad ->952 \quad ->455 \quad ->213 \quad ->62 \quad ->952 \quad ->455 \quad ->213 \quad ->62 \quad ->952 \quad ->455 \quad ->213 \quad ->952 \quad ->455 \quad ->213 \quad ->952 \quad ->455 \quad ->952 \quad ->455 \quad ->952 \quad ->952 \quad ->455 \quad ->952 \quad ->952 \quad ->455 \quad ->952 
                                                                                    ->947 ->269 ->655 ->919 ->
                             133 \ -> 553 \ -> 139 \ -> 253 \ -> 811 \ -> 402 \ -> 891 \ -> 482 \ -> 351 \ -> 156 \ -> 113 \ -> 308 \ -> 138 \ -> 880 \ -> 679 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 1
                                                                                    ->857 ->207 ->57 ->201 ->868 ->
54 Time: 26.4534653769806027
56 Length: 6225
58 \ 0 \ -> 73 \ -> 391 \ -> 422 \ -> 306 \ -> 475 \ -> 443 \ -> 256 \ -> 222 \ -> 778 \ -> 910 \ -> 901 \ -> 448 \ -> 434 \ -> 413 \ -> 148 \ -> 413 \ -> 148 \ -> 413 \ -> 148 \ -> 413 \ -> 148 \ -> 413 \ -> 148 \ -> 413 \ -> 148 \ -> 413 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ -> 148 \ ->
                                                                                      ->466 ->184 ->272 ->706 ->
                               990 \ -{>}769 \ -{>}702 \ -{>}668 \ -{>}479 \ -{>}975 \ -{>}996 \ -{>}849 \ -{>}977 \ -{>}145 \ -{>}265 \ -{>}625 \ -{>}381 \ -{>}362 \ -{>}415 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 \ -{>}625 
                                                                                        ->555 ->898 ->801 ->989 ->464 ->
                             84 \ -> 912 \ -> 378 \ -> 561 \ -> 721 \ -> 315 \ -> 116 \ -> 227 \ -> 477 \ -> 958 \ -> 223 \ -> 377 \ -> 881 \ -> 234 \ -> 444 \ -> 971 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 11
                                                                                                  ->826 ->830 ->673 ->327 ->
61 \quad 954 \quad ->429 \quad ->986 \quad ->815 \quad ->645 \quad ->342 \quad ->797 \quad ->411 \quad ->322 \quad ->894 \quad ->439 \quad ->366 \quad ->725 \quad ->348 \quad ->677 \quad ->898 \quad ->818 \quad -
                                                                                                ->276 ->458 ->823 ->95 ->321 ->
                             282 \;\; ->\! 341 \;\; ->\! 777 \;\; ->\! 843 \;\; ->\! 966 \;\; ->\! 718 \;\; ->\! 226 \;\; ->\! 928 \;\; ->\! 636 \;\; ->\! 263 \;\; ->\! 453 \;\; ->\! 445 \;\; ->\! 847 \;\; ->\! 984 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->\! 180 \;\; ->
                                                                                            ->204 ->93 ->151 ->465 ->325 ->
63 \quad 670 \quad ->485 \quad ->405 \quad ->450 \quad ->956 \quad ->617 \quad ->819 \quad ->236 \quad ->533 \quad ->963 \quad ->25 \quad ->992 \quad ->660 \quad ->402 \quad ->925 \quad ->649 \quad ->925 \quad ->992 \quad ->660 \quad ->402 \quad ->925 \quad ->992 \quad ->649 \quad ->925 \quad ->992 \quad ->925 \quad ->
                                                                                                    ->452 ->744 ->953 ->497 ->
                             853 \ -{>}401 \ -{>}917 \ -{>}959 \ -{>}838 \ -{>}613 \ -{>}903 \ -{>}100 \ -{>}114 \ -{>}841 \ -{>}304 \ -{>}150 \ -{>}280 \ -{>}467 \ -{>}560
                                                                                                ->379 ->225 ->291 ->474 ->319 ->
65 \quad 708 \quad ->344 \quad ->44 \quad ->911 \quad ->289 \quad ->396 \quad ->773 \quad ->457 \quad ->412 \quad ->357 \quad ->459 \quad ->970 \quad ->390 \quad ->979 \quad ->955 \quad ->436 \quad ->970 \quad ->979 \quad ->
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->934 ->72 ->545 ->449 ->
  66 \quad 763 \quad ->312 \quad ->747 \quad ->836 \quad ->983 \quad ->460 \quad ->188 \quad ->251 \quad ->935 \quad ->713 \quad ->230 \quad ->760 \quad ->944 \quad ->359 \quad ->496 \quad ->100 \quad -
                                                                                                             ->662 ->748 ->716 ->897 ->441 ->
                                  534 \ -> 855 \ -> 471 \ -> 632 \ -> 338 \ -> 978 \ -> 407 \ -> 699 \ -> 461 \ -> 137 \ -> 205 \ -> 105 \ -> 906 \ -> 972 \ -> 245 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 105 \ -> 1
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                                       860 \ -> 523 \ -> 476 \ -> 417 \ -> 918 \ -> 806 \ -> 431 \ -> 803 \ -> 175 \ -> 866 \ -> 916 \ -> 751 \ -> 343 \ -> 914 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 807 \ -> 8
                                                                                                          ->217 ->567 ->185 ->698 ->463 ->
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                                                                                                             ->715 ->948 ->493 ->193 ->123 ->
                                  498 \hspace{0.1cm} -> \hspace{-0.08cm} 559 \hspace{0.1cm} -> \hspace{-0.08cm} 967 \hspace{0.1cm} -> \hspace{-0.08cm} 367 \hspace{0.1cm} -> \hspace{-0.08cm} 704 \hspace{0.1cm} -> \hspace{-0.08cm} 174 \hspace{0.1cm} -> \hspace{-0.08cm} 854 \hspace{0.1cm} -> \hspace{-0.08cm} 913 \hspace{0.1cm} -> \hspace{-0.08cm} 162 \hspace{0.1cm} -> \hspace{-0.08cm} 353 \hspace{0.1cm} -> \hspace{-0.08cm} 350 \hspace{0.1cm} -> \hspace{-0.08cm} 840 \hspace{0.1cm} -> \hspace{-0.08cm} 420 \hspace{0.1cm} -> \hspace{-0.08cm} 100 \hspace{0.1cm} -> \hspace{-
                                                                                                        ->627 ->109 ->833 ->349 ->267 ->
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                                                                                                               ->839 ->927 ->246 ->810 ->
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                                                                                                      ->309 ->252 ->882 ->295 ->968 ->
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                                                                                                             ->268 ->640 ->346 ->805 ->947 ->
                                  867 \ -> 676 \ -> 962 \ -> 658 \ -> 792 \ -> 157 \ -> 932 \ -> 798 \ -> 859 \ -> 975 \ -> 383 \ -> 759 \ -> 758 \ -> 499 \ -> 937 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                                                        ->753 ->130 ->371 ->837 ->596 ->
                                     219 \ -> 239 \ -> 573 \ -> 253 \ -> 240 \ -> 364 \ -> 255 \ -> 711 \ -> 727 \ -> 418 \ -> 656 \ -> 124 \ -> 574 \ -> 942 \ -> 936 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 124 \ -> 1
                                                                                                          ->993 ->556 ->260 ->389 ->717 ->
                                     135 \ ->\! 286 \ ->\! 974 \ ->\! 241 \ ->\! 933 \ ->\! 160 \ ->\! 729 \ ->\! 741 \ ->\! 161 \ ->\! 889 \ ->\! 771 \ ->\! 153 \ ->\! 111 \ ->\! 737 \ ->\! 269
                                                                                                    ->568 ->270 ->762 ->435 ->437 ->
                                     408 \ -> 308 \ -> 618 \ -> 326 \ -> 589 \ -> 368 \ -> 530 \ -> 812 \ -> 779 \ -> 316 \ -> 410 \ -> 375 \ -> 273 \ -> 554 \ -> 919 \ -> 316 \ -> 410 \ -> 375 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 310 \ -> 3
                                                                                                    ->152 ->154 ->960 ->419 ->808 ->
                                     231 \ -> 652 \ -> 187 \ -> 900 \ -> 884 \ -> 387 \ -> 470 \ -> 199 \ -> 761 \ -> 141 \ -> 822 \ -> 732 \ -> 277 \ -> 186 \ -> 893 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 186 \ -> 1
                                                                                                             ->423 ->318 ->372 ->198 ->634 ->
                                  924 \ ->374 \ ->494 \ ->624 \ ->896 \ ->895 \ ->358 \ ->929 \ ->890 \ ->99 \ ->455 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->890 \ ->99 \ ->455 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->163 \ ->163 \ ->709 \ ->328 \ ->595 \ ->261 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ ->163 \ 
                                                                                                                 ->563 ->97 ->243 ->939 ->
                                     143 \; -> \\ 302 \; -> \\ 742 \; -> \\ 565 \; -> \\ 991 \; -> \\ 196 \; -> \\ 285 \; -> \\ 842 \; -> \\ 274 \; -> \\ 298 \; -> \\ 598 \; -> \\ 147 \; -> \\ 447 \; -> \\ 345 \; -> \\ 170 \; -> \\ 170 \; -> \\ 170 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> \\ 180 \; -> 
                                                                                                          ->336 ->482 ->484 ->957 ->66 ->
                                     490 \;\; -> 491 \;\; -> 783 \;\; -> 654 \;\; -> 335 \;\; -> 294 \;\; -> 281 \;\; -> 862 \;\; -> 566 \;\; -> 287 \;\; -> 607 \;\; -> 641 \;\; -> 745 \;\; -> 945 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 \;\; -> 642 
                                                                                                      ->746 ->679 ->283 ->293 ->85 ->
                                  376 \ -> 666 \ -> 373 \ -> 597 \ -> 638 \ -> 324 \ -> 41 \ -> 369 \ -> 832 \ -> 271 \ -> 667 \ -> 905 \ -> 941 \ -> 870 \ -> 821 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 164 \ -> 16
                                                                                                                 ->28 ->416 ->189 ->985 ->
                                     950 \ ->\!827 \ ->\!278 \ ->\!946 \ ->\!639 \ ->\!608 \ ->\!166 \ ->\!789 \ ->\!909 \ ->\!661 \ ->\!129 \ ->\!207 \ ->\!921 \ ->\!446 \ ->\!385 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\hspace100 \ ->\hspace1
                                                                                                          ->675 ->51 ->700 ->767 ->695 ->
                                       680 \ \ -> 486 \ \ -> 738 \ \ -> 772 \ \ -> 987 \ \ -> 266 \ \ -> 82 \ \ -> 244 \ \ -> 635 \ \ -> 380 \ \ \ -> 692 \ \ -> 142 \ \ -> 249 \ \ -> 382 \ \ -> 428 \ \ -> 68
                                                                                                    ->173 ->951 ->331 ->794 ->
                                       669 \ -> 360 \ -> 14 \ -> 393 \ -> 197 \ -> 678 \ -> 177 \ -> 714 \ -> 800 \ -> 659 \ -> 83 \ -> 473 \ -> 581 \ -> 495 \ -> 102 \ -> 200 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                               ->165 ->586 ->547 ->384 ->
                                  257 \ -> 943 \ -> 424 \ -> 347 \ -> 108 \ -> 850 \ -> 79 \ -> 80 \ -> 337 \ -> 258 \ -> 146 \ -> 352 \ -> 644 \ -> 528 \ -> 254 \ -> 356
                                                                                                    ->621 ->766 ->40 ->462 ->
                                  221 \;\; -> 781 \;\; -> 776 \;\; -> 755 \;\; -> 610 \;\; -> 469 \;\; -> 172 \;\; -> 791 \;\; -> 886 \;\; -> 53 \;\; -> 214 \;\; -> 730 \;\; -> 593 \;\; -> 89 \;\; -> 562 \;\; -> 592 \;\; -> 592 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\;
                                                                                                  ->74 ->299 ->697 ->628 ->
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                                                                                                             ->94 ->768 ->392 ->127 ->
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                                                                                                                 ->871 ->203 ->279 ->330 ->
  94 \ \ 48 \ \ ->403 \ \ ->182 \ \ ->788 \ \ ->233 \ \ ->876 \ \ ->631 \ \ \ ->949 \ \ \ ->541 \ \ \ ->442 \ \ \ ->817 \ \ \ \ ->619 \ \ \ ->764 \ \ \ \ ->134 \ \ \ \ ->21
                                                                                                        ->235 ->112 ->115 ->432 ->
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                                                                                                             ->926 ->888 ->483 ->103 ->
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                                                                                                                   ->685 ->726 ->550 ->210 ->
99 \ 629 \ ->922 \ ->877 \ ->591 \ ->703 \ ->674 \ ->209 \ ->242 \ ->720 \ ->609 \ ->584 \ ->332 \ ->813 \ ->785 \ ->719
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->303 ->516 ->171 ->820 ->723 ->
100 \ 626 \ -> 168 \ -> 605 \ -> 120 \ -> 90 \ -> 65 \ -> 775 \ -> 365 \ -> 87 \ -> 879 \ -> 52 \ -> 633 \ -> 18 \ -> 544 \ -> 795 \ -> 965 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 
                                                                                                         ->55 ->38 ->816 ->183 ->
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 104 \ 513 \ ->537 \ ->101 \ ->24 \ ->88 \ ->63 \ ->313 \ ->100 \ ->201 \ ->580 \ ->569 \ ->522 \ ->543 \ ->518 \ ->526 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->653 \ ->6
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 114 \ 999 \ ->881 \ ->234 \ ->444 \ ->971 \ ->197 \ ->678 \ ->489 \ ->245 \ ->616 \ ->32 \ ->893 \ ->684 \ ->124 \ ->949 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ ->719 \ -
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 116 \ 393 \ ->979 \ ->219 \ ->867 \ ->438 \ ->194 \ ->448 \ ->434 \ ->723 \ ->391 \ ->419 \ ->440 \ ->670 \ ->721 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ ->714 \ 
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117 \ 953 \ ->497 \ ->727 \ ->418 \ ->656 \ ->100 \ ->475 \ ->937 \ ->748 \ ->963 \ ->481 \ ->745 \ ->928 \ ->416 \ ->189 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ 
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122 \ 964 \ -> 339 \ -> 718 \ -> 152 \ -> 237 \ -> 117 \ -> 228 \ -> 68 \ -> 988 \ -> 664 \ -> 217 \ -> 931 \ -> 137 \ -> 437 \ -> 239 \ -> 425 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \
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                                         663 \; -> 883 \; -> 917 \; -> 445 \; -> 362 \; -> 699 \; -> 626 \; -> 159 \; -> 623 \; -> 669 \; -> 746 \; -> 439 \; -> 402 \; -> 861 \; -> 973 \; -> 402 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 801 \; -> 8
                                                                                                         ->683 ->286 ->974 ->588 ->652 ->
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                                             590 \ ->\! 200 \ ->\! 203 \ ->\! 890 \ ->\! 847 \ ->\! 954 \ ->\! 938 \ ->\! 695 \ ->\! 900 \ ->\! 586 \ ->\! 435 \ ->\! 627 \ ->\! 353 \ ->\! 640 \ ->\! 429 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 \ ->\! 627 
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                                         869 \ -> 995 \ -> 311 \ -> 110 \ -> 631 \ -> 140 \ -> 880 \ -> 480 \ -> 363 \ -> 935 \ -> 713 \ -> 863 \ -> 145 \ -> 707 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 697 \ -> 6
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 127 \ \ 462 \ \ ->\! 243 \ \ ->\! 673 \ \ ->\! 722 \ \ ->\! 334 \ \ ->\! 106 \ \ ->\! 182 \ \ ->\! 143 \ \ ->\! 742 \ \ ->\! 565 \ \ ->\! 991 \ \ ->\! 987 \ \ ->\! 701 \ \ ->\! 120 \ \ ->\! 929 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ ->\! 120 \ \ 
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 128 \quad 244 \quad ->370 \quad ->215 \quad ->449 \quad ->477 \quad ->850 \quad ->886 \quad ->877 \quad ->943 \quad ->349 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->651 \quad ->848 \quad ->89 \quad ->717 \quad ->945 \quad ->960 \quad ->860 \quad -
                                                                                                                 ->342 ->186 ->375 ->166 ->
 129 \ 161 \ ->711 \ ->181 \ ->368 \ ->399 \ ->204 \ ->93 \ ->151 \ ->465 \ ->958 \ ->614 \ ->700 \ ->260 \ ->224 \ ->570 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ ->915 \ -
                                                                                                                    ->178 ->149 ->367 ->704 ->
                                         458 \ -> 823 \ -> 442 \ -> 649 \ -> 452 \ -> 473 \ -> 581 \ -> 599 \ -> 371 \ -> 398 \ -> 690 \ -> 866 \ -> 736 \ -> 236 \ -> 478 \ -> 478 \ -> 690 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 866 \ -> 736 \ -> 8
                                                                                                         ->144 ->984 ->609 ->249 ->887 ->
 131 \ 771 \ -> 733 \ -> 976 \ -> 242 \ -> 88 \ -> 169 \ -> 305 \ -> 387 \ -> 992 \ -> 70 \ -> 978 \ -> 573 \ -> 84 \ -> 191 \ -> 977 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -> 167 \ -
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                                         67 \ -> 597 \ -> 708 \ -> 139 \ -> 692 \ -> 142 \ -> 180 \ -> 889 \ -> 990 \ -> 450 \ -> 956 \ -> 385 \ -> 397 \ -> 927 \ -> 451 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 18
                                                                                                             ->75 ->691 ->176 ->453 ->
 133\ \ 301\ \ ->728\ \ ->895\ \ ->358\ \ ->634\ \ ->297\ \ ->44\ \ ->911\ \ ->129\ \ ->547\ \ ->384\ \ ->222\ \ ->596\ \ ->472\ \ ->970\ \ ->390
                                                                                                                 ->662 ->913 ->162 ->686 ->
 134 \ 94 \ ->921 \ ->604 \ ->424 \ ->946 \ ->423 \ ->114 \ ->119 \ ->898 \ ->155 \ ->891 \ ->382 \ ->108 \ ->420 \ ->372 \ ->130 \ ->130 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ ->108 \ -
                                                                                                                 ->412 ->422 ->685 ->198 ->
 135 \ 641 \ -> 668 \ -> 101 \ -> 912 \ -> 205 \ -> 864 \ -> 705 \ -> 125 \ -> 955 \ -> 153 \ -> 378 \ -> 944 \ -> 321 \ -> 918 \ -> 392 \ -> 73
                                                                           ->840 ->231 ->582 ->923 ->
```

```
136 \ 857 \ -> 693 \ -> 594 \ -> 496 \ -> 672 \ -> 388 \ -> 238 \ -> 133 \ -> 208 \ -> 983 \ -> 618 \ -> 940 \ -> 518 \ -> 910 \ -> 606
                                                                                       ->909 ->661 ->65 ->725 ->400 ->
                                     845 \ -> 892 \ -> 655 \ -> 903 \ -> 111 \ -> 902 \ -> 888 \ -> 97 \ -> 962 \ -> 676 \ -> 591 \ -> 873 \ -> 865 \ -> 831 \ -> 696 \ -> 584 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 831 \ -> 865 \ -> 865 \ -> 831 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 865 \ -> 86
                                                                                                         ->168 ->607 ->859 ->548 ->
                                     346 \ ->\! 221 \ ->\! 455 \ ->\! 213 \ ->\! 952 \ ->\! 373 \ ->\! 860 \ ->\! 812 \ ->\! 674 \ ->\! 366 \ ->\! 961 \ ->\! 127 \ ->\! 602 \ ->\! 411 \ ->\! 172
                                                                                              ->376 ->856 ->679 ->870 ->821 ->
                                     858 \ -> 997 \ -> 24 \ -> 926 \ -> 907 \ -> 564 \ -> 381 \ -> 529 \ -> 872 \ -> 329 \ -> 941 \ -> 650 \ -> 732 \ -> 675 \ -> 409 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 81
                                                                                                       ->702 ->112 ->899 ->118 ->
                                     310 \; ->\! 846 \; ->\! 855 \; ->\! 471 \; ->\! 688 \; ->\! 578 \; ->\! 951 \; ->\! 709 \; ->\! 156 \; ->\! 989 \; ->\! 920 \; ->\! 60 \; ->\! 950 \; ->\! 196 \; ->\! 304 \; ->\! 566 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; -> 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; 
                                                                                                       ->121 ->740 ->868 ->179 ->
   141\ 229\ -{>}361\ -{>}396\ -{>}428\ -{>}158\ -{>}461\ -{>}355\ -{>}665\ -{>}380\ -{>}174\ -{>}338\ -{>}829\ -{>}173\ -{>}352\ -{>}644\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ -{>}365\ 
                                                                                         ->932 ->403 ->95 ->183 ->671 ->
 142 \ 146 \ -> 356 \ -> 15 \ -> 884 \ -> 589 \ -> 466 \ -> 749 \ -> 834 \ -> 878 \ -> 344 \ -> 822 \ -> 615 \ -> 107 \ -> 214 \ -> 347 \ -> 906 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \ -> 107 \
                                                                                                     ->972 ->55 ->613 ->827 ->
                                     694 \ -> 839 \ -> 319 \ -> 539 \ -> 91 \ -> 638 \ -> 788 \ -> 41 \ -> 122 \ -> 490 \ -> 807 \ -> 635 \ -> 852 \ -> 210 \ -> 744 \ -> 324
                                                                                           ->401 ->879 ->667 ->905 ->
                                     561 \ ->147 \ ->447 \ ->555 \ ->801 \ ->901 \ ->406 \ ->610 \ ->830 \ ->128 \ ->802 \ ->408 \ ->308 \ ->50 \ ->885 \ ->853 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \ ->802 \
                                                                                                         ->87 ->896 ->330 ->562 ->
 145 \ 592 \ ->619 \ ->312 \ ->747 \ ->410 \ ->796 \ ->639 \ ->608 \ ->854 \ ->836 \ ->947 \ ->379 \ ->193 \ ->326 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ ->882 \ 
                                                                                           ->295 ->348 ->436 ->331 ->832 ->
 146\ 617\ ->281\ ->72\ ->800\ ->659\ ->175\ ->817\ ->103\ ->395\ ->587\ ->300\ ->841\ ->141\ ->190\ ->521\ ->414
                                                                                                     ->816 ->540 ->595 ->828 ->
                                     815 \ ->\!571 \ ->\!600 \ ->\!309 \ ->\!40 \ ->\!56 \ ->\!79 \ ->\!80 \ ->\!76 \ ->\!58 \ ->\!82 \ ->\!779 \ ->\!69 \ ->\!157 \ ->\!315 \ ->\!585 \ ->\!969
                                                                                         ->593 ->778 ->66 ->
                                       605 \ -> 105 \ -> 202 \ -> 188 \ -> 819 \ -> 601 \ -> 317 \ -> 81 \ -> 620 \ -> 563 \ -> 71 \ -> 806 \ -> 322 \ -> 894 \ -> 63 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 \ -> 681 
                                                                                         ->647 ->430 ->531 ->625 ->
                                       824 \ -> 126 \ -> 851 \ -> 85 \ -> 844 \ -> 327 \ -> 78 \ -> 138 \ -> 527 \ -> 201 \ -> 306 \ -> 611 \ -> 810 \ -> 115 \ -> 567 \ -> 731
                                                                                           ->710 ->192 ->556 ->53 ->
                                     862 \; -> 843 \; -> 340 \; -> 560 \; -> 799 \; -> 365 \; -> 39 \; -> 96 \; -> 323 \; -> 793 \; -> 43 \; -> 318 \; -> 303 \; -> 351 \; -> 59 \; -> 773 \; -> 43 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; 
                                                                                           ->577 ->52 ->833 ->360 ->
                                     328 \ -> 18 \ -> 38 \ -> 74 \ -> 798 \ -> 441 \ -> 343 \ -> 177 \ -> 316 \ -> 341 \ -> 583 \ -> 369 \ -> 630 \ -> 45 \ -> 575 \ -> 277 \ -> 316 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \ -> 341 \
                                                                                                ->415 ->64 ->787 ->804 ->
                                       908 \ ->\! 23 \ ->\! 549 \ ->\! 275 \ ->\! 780 \ ->\! 291 \ ->\! 42 \ ->\! 134 \ ->\! 818 \ ->\! 837 \ ->\! 325 \ ->\! 30 \ ->\! 61 \ ->\! 568 \ ->\! 579 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->\! 302 \ ->
                                                                                           ->31 ->27 ->51 ->838 ->
                                     33 \ -> 557 \ -> 320 \ -> 116 \ -> 814 \ -> 337 \ -> 538 \ -> 22 \ -> 820 \ -> 783 \ -> 534 \ -> 551 \ -> 552 \ -> 536 \ -> 774 \ -> 296
                                                                                              ->776 ->29 ->515 ->86 ->
                                       576 \ -> 784 \ -> 795 \ -> 313 \ -> 36 \ -> 930 \ -> 35 \ -> 537 \ -> 335 \ -> 389 \ -> 534 \ -> 299 \ -> 92 \ -> 83 \ -> 284 \ -> 333 \ -> 36 \ -> 389 \ -> 360 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ -> 380 \ 
                                                                                           ->21 ->290 ->545 ->687 ->
 155 \ \ 298 \ \ ->598 \ \ ->499 \ \ ->809 \ \ ->513 \ \ ->98 \ \ ->550 \ \ ->775 \ \ ->530 \ \ ->643 \ \ ->292 \ \ ->767 \ \ ->777 \ \ \ ->558 \ \ ->314 \ \ ->13 \ \ ->13 \ \ ->13 \ \ ->14 \ \ ->13 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \ \ ->14 \
                                                                                       ->48 ->781 ->28 ->20 ->
                                     612 \ ->\! 285 \ ->\! 294 \ ->\! 46 \ ->\! 25 \ ->\! 786 \ ->\! 54 \ ->\! 37 \ ->\! 553 \ ->\! 104 \ ->\! 835 \ ->\! 789 \ ->\! 171 \ ->\! 825 \ ->\! 287 \ ->\! 761
                                                                                                  ->544 ->797 ->811 ->265 ->
                                     803 \ ->\!808 \ ->\!276 \ ->\!6 \ ->\!773 \ ->\!726 \ ->\!11 \ ->\!769 \ ->\!653 \ ->\!256 \ ->\!849 \ ->\!57 \ ->\!14 \ ->\!49 \ ->\!19 \ ->\!26 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!805 \ ->\!
                                                                                              ->288 ->10 ->580 ->
                                     272 \;\; ->511 \;\; ->542 \;\; ->270 \;\; ->541 \;\; ->559 \;\; ->765 \;\; ->16 \;\; ->62 \;\; ->278 \;\; ->520 \;\; ->759 \;\; ->528 \;\; ->546 \;\; ->790 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271 \;\; ->271
                                                                                         ->762 ->792 ->12 ->5 ->
                                         262 \ -> 259 \ -> 758 \ -> 267 \ -> 569 \ -> 263 \ -> 8 \ -> 572 \ -> 794 \ -> 307 \ -> 268 \ -> 532 \ -> 269 \ -> 519 \ -> 9 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \ -> 279 \
                                                                                         ->768 ->517 ->772 ->543 ->
                                     535 \ ->\! 283 \ ->\! 293 \ ->\! 522 \ ->\! 274 \ ->\! 770 \ ->\! 526 \ ->\! 523 \ ->\! 791 \ ->\! 533 \ ->\! 510 \ ->\! 250 \ ->\! 273 \ ->\! 554 \ ->\! 7 \ ->\! 508
                                                                                     ->258 ->289 ->17 ->525 ->
                                     4 \ -> 756 \ -> 282 \ -> 254 \ -> 332 \ -> 261 \ -> 766 \ -> 2 \ -> 264 \ -> 512 \ -> 765 \ -> 764 \ -> 755 \ -> 255 \ -> 253 \ -> 516
                                                                                         ->760 ->751 ->514 ->763 ->
                                     757 \ -> 502 \ -> 750 \ -> 754 \ -> 251 \ -> 524 \ -> 257 \ -> 752 \ -> 753 \ -> 252 \ -> 500 \ -> 503 \ -> 501 \ -> 504 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 505 \ -> 5
                                                                                         ->506 ->509 ->507 ->0 ->3 ->
163 1 ->
164 Time: 12.9266952360048890
 165
166 Length: 8530
167
168 \ 2 \ -> 849 \ -> 249 \ -> 227 \ -> 122 \ -> 738 \ -> 366 \ -> 971 \ -> 589 \ -> 868 \ -> 678 \ -> 727 \ -> 686 \ -> 594 \ -> 477 \ -> 958 \ -> 686 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ 
                                                                                                ->614 ->621 ->659 ->91 ->
                                       602 \; ->\! 822 \; ->\! 83 \; ->\! 473 \; ->\! 223 \; ->\! 714 \; ->\! 338 \; ->\! 978 \; ->\! 218 \; ->\! 433 \; ->\! 867 \; ->\! 230 \; ->\! 59 \; ->\! 121 \; ->\! 582 \; ->\! 604
                                                                                           ->684 ->733 ->874 ->994 ->
                                     624 \;\; ->\!817 \;\; ->\!619 \;\; ->\!481 \;\; ->\!873 \;\; ->\!865 \;\; ->\!831 \;\; ->\!441 \;\; ->\!371 \;\; ->\!837 \;\; ->\!75 \;\; ->\!448 \;\; ->\!833 \;\; ->\!349 \;\; ->\!493 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;\; ->\!479 \;
                                                                                                     ->745 ->749 ->834 ->341 ->
                                         348 \ ->\! 460 \ ->\! 847 \ ->\! 954 \ ->\! 429 \ ->\! 986 \ ->\! 945 \ ->\! 238 \ ->\! 244 \ ->\! 370 \ ->\! 736 \ ->\! 236 \ ->\! 478 \ ->\! 462 \ ->\! 983
                                                                                            ->956 ->617 ->474 ->726 ->344 ->
172 \ 44 \ -> 458 \ -> 459 \ -> 591 \ -> 106 \ -> 120 \ -> 991 \ -> 967 \ -> 970 \ -> 989 \ -> 119 \ -> 64 \ -> 951 \ -> 480 \ -> 363 \ -> 434 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \
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->113 ->713 ->123 ->692 ->
  173 \quad 585 \quad ->368 \quad ->361 \quad ->955 \quad ->436 \quad ->331 \quad ->870 \quad ->496 \quad ->836 \quad ->850 \quad ->111 \quad ->104 \quad ->992 \quad ->930 \quad ->998 \quad 
                                                                                                                     ->698 ->463 ->697 ->610 ->586 ->
                                               744 \ -> 598 \ -> 959 \ -> 124 \ -> 454 \ -> 985 \ -> 107 \ -> 214 \ -> 706 \ -> 109 \ -> 737 \ -> 605 \ -> 225 \ -> 715 \ -> 948 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 109 \ -> 1
                                                                                                                  ->700 ->980 ->600 ->717 ->93 ->
                                                 475 -> 443 -> 940 -> 414 -> 372 -> 198 -> 357 -> 620 -> 724 -> 470 -> 80 -> 76 -> 968 -> 237 -> 731 -> 101
                                                                                                                ->245 ->420 ->358 ->840 ->
                                               484 \ -> 465 \ -> 975 \ -> 322 \ -> 786 \ -> 442 \ -> 848 \ -> 81 \ -> 494 \ -> 599 \ -> 362 \ -> 234 \ -> 732 \ -> 595 \ -> 699 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 19
                                                                                                                                ->203 ->498 ->192 ->830 ->
                                               962 \; -> 301 \; -> 100 \; -> 87 \; -> 92 \; -> 860 \; -> 174 \; -> 188 \; -> 471 \; -> 601 \; -> 317 \; -> 95 \; -> 742 \; -> 694 \; -> 89 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \; -> 863 \;
                                                                                                                  ->487 ->426 ->593 ->923 ->
178 \quad 108 \quad ->711 \quad ->491 \quad ->197 \quad ->612 \quad ->311 \quad ->220 \quad ->965 \quad ->55 \quad ->917 \quad ->743 \quad ->981 \quad ->497 \quad ->990 \quad ->707 \quad ->721 \quad -
                                                                                                                                    ->98 ->866 ->649 ->452 ->
  179 \ \ 73 \ \ ->550 \ \ ->210 \ \ ->334 \ \ ->369 \ \ ->206 \ \ ->533 \ \ ->719 \ \ ->841 \ \ ->622 \ \ ->673 \ \ ->857 \ \ ->231 \ \ ->194 \ \ ->171 \ \ ->489 \ \ ->171 \ \ ->849 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \ ->171 \ \
                                                                                                                           ->871 ->485 ->939 ->143 ->
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                                                                                                                           ->374 ->616 ->455 ->608 ->
                                                                                                 -> 704 \ -> 997 \ -> 215 \ -> 449 \ -> 216 \ -> 872 \ -> 984 \ -> 931 \ -> 718 \ -> 94 \ -> 723 \ -> 583 \ -> 982 \ -> 345 \ -> 314
                                                                                                                             ->211 ->748 ->440 ->829 ->
                                                                                                 ->\!\!412 ->\!\!116 ->\!\!467 ->\!\!741 ->\!\!324 ->\!\!935 ->\!\!577 ->\!\!609 ->\!\!447 ->\!\!728 ->\!\!855 ->\!\!708 ->\!\!999 ->\!\!72 ->\!\!679 ->\!\!470 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!800 ->\!\!8
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                                             603 \; ->\! 818 \; ->\! 359 \; ->\! 343 \; ->\! 202 \; ->\! 815 \; ->\! 571 \; ->\! 232 \; ->\! 938 \; ->\! 472 \; ->\! 417 \; ->\! 588 \; ->\! 607 \; ->\! 329 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 \; ->\! 805 
  183
                                                                                                                       ->947 ->103 ->228 ->71 ->167 ->
                                             ->839 ->961 ->297 ->952 ->
                                               423 \ -> 712 \ -> 691 \ -> 333 \ -> 688 \ -> 590 \ -> 413 \ -> 364 \ -> 388 \ -> 490 \ -> 729 \ -> 60 \ -> 950 \ -> 827 \ -> 468 \ -> 212 \ -> 600 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 12
                                                                                                                             ->828 ->446 ->219 ->88 ->
                                               615 \;\; -> 365 \;\; -> 696 \;\; -> 824 \;\; -> 69 \;\; -> 102 \;\; -> 995 \;\; -> 597 \;\; -> 566 \;\; -> 476 \;\; -> 558 \;\; -> 112 \;\; -> 62 \;\; -> 342 \;\; -> 797 \;\; -> 933 \;\; -> 797 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\;
                                                                                                                  ->725 ->63 ->927 ->925 ->
                                               327 \ -> 988 \ -> 241 \ -> 924 \ -> 351 \ -> 534 \ -> 739 \ -> 240 \ -> 705 \ -> 796 \ -> 226 \ -> 354 \ -> 555 \ -> 690 \ -> 547 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 790 \ -> 7
                                                                                                              ->576 ->570 ->820 ->316 ->200 ->
                                               281 \; ->\! 862 \; ->\! 28 \; ->\! 789 \; ->\! 613 \; ->\! 695 \; ->\! 450 \; ->\! 82 \; ->\! 960 \; ->\! 832 \; ->\! 843 \; ->\! 859 \; ->\! 548 \; ->\! 74 \; ->\! 495 \; ->\! 438 \; ->\! 859 \; ->\! 843 \; ->\! 859 \; ->\! 843 \; ->\! 859 \; ->\! 843 \; ->\! 859 \; ->\! 843 \; ->\! 859 \; ->\! 843 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; ->\! 859 \; -
                                                                                                                       ->977 ->117 ->217 ->693 ->
                                             204 \ -> 79 \ -> 321 \ -> 57 \ -> 844 \ -> 356 \ -> 662 \ -> 300 \ -> 806 \ -> 944 \ -> 336 \ -> 340 \ -> 400 \ -> 350 \ -> 720 \ -> 328
                                                                                                                  ->175 ->306 ->611 ->209 ->
                                             592 \ -> 191 \ -> 295 \ -> 486 \ -> 285 \ -> 181 \ -> 823 \ -> 347 \ -> 587 \ -> 99 \ -> 572 \ -> 158 \ -> 131 \ -> 483 \ -> 809 \ -> 966
                                                                                                                                ->664 ->461 ->355 ->302 ->
                                               396 \ -> 551 \ -> 709 \ -> 701 \ -> 996 \ -> 716 \ -> 335 \ -> 804 \ -> 528 \ -> 546 \ -> 596 \ -> 912 \ -> 53 \ -> 242 \ -> 549 \ -> 280 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 804 \ -> 80
                                                                                                                             ->926 ->581 ->655 ->890 ->
  192 \ 196 \ ->540 \ ->561 \ ->466 \ ->346 \ ->221 \ ->672 \ ->979 \ ->973 \ ->46 \ ->802 \ ->52 \ ->974 \ ->339 \ ->667 \ ->808 \ ->670 \ ->808 \ ->670 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->667 \ ->808 \ ->808 \ ->667 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->
                                                                                                                     ->445 ->963 ->681 ->606 ->
                                             569 \ -> 395 \ -> 564 \ -> 320 \ -> 273 \ -> 554 \ -> 527 \ -> 530 \ -> 177 \ -> 769 \ -> 415 \ -> 337 \ -> 921 \ -> 545 \ -> 782
                                                                                                            ->352 ->308 ->50 ->853 ->648 ->
                                                 222 \ ->\! 410 \ ->\! 972 \ ->\! 747 \ ->\! 916 \ ->\! 431 \ ->\! 332 \ ->\! 183 \ ->\! 858 \ ->\! 184 \ ->\! 869 \ ->\! 170 \ ->\! 310 \ ->\! 115 \ ->\! 851 \ ->\! 85
                                                                                                                         ->918 ->730 ->187 ->544 ->
                                             233 \ -> 296 \ -> 898 \ -> 155 \ -> 825 \ -> 800 \ -> 409 \ -> 303 \ -> 810 \ -> 276 \ -> 96 \ -> 492 \ -> 685 \ -> 942 \ -> 77 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813 \ -> 813
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                                                                                                            ->773 ->168 ->538 ->247 ->
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                                                                                                                  ->658 ->652 ->27 ->882 ->
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                                                                                                                           ->151 ->394 ->307 ->864 ->
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                                                                                                                  ->522 ->309 ->668 ->32 ->
202 \quad 150 \quad ->674 \quad ->910 \quad ->39 \quad ->542 \quad ->521 \quad ->770 \quad ->635 \quad ->517 \quad ->325 \quad ->282 \quad ->164 \quad ->353 \quad ->928 \quad ->229 \quad ->889 \quad -
                                                                                                                                ->166 ->670 ->687 ->298 ->
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                                                                                                              ->260 ->904 ->287 ->292 ->
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                                                                                                              ->775 ->642 ->432 ->936 ->
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->392 ->403 ->33 ->152 ->421 ->
207 \ 539 \ ->911 \ ->772 \ ->987 \ ->224 \ ->795 \ ->763 \ ->663 \ ->398 \ ->266 \ ->391 \ ->901 \ ->932 \ ->444 \ ->48 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ ->821 \ -
                                                                                                           ->159 ->275 ->892 ->787 ->
                                       532 \ -> 451 \ -> 637 \ -> 519 \ -> 146 \ -> 283 \ -> 293 \ -> 537 \ -> 384 \ -> 257 \ -> 294 \ -> 957 \ -> 768 \ -> 630 \ -> 304
                                                                                                   ->272 ->135 ->17 ->58 ->51 ->
                                       838 \ -{>}411 \ -{>}201 \ -{>}269 \ -{>}819 \ -{>}291 \ -{>}114 \ -{>}23 \ -{>}765 \ -{>}134 \ -{>}176 \ -{>}315 \ -{>}268 \ -{>}900 \ -{>}199 \ -{>}803
                                                                                                       ->651 ->262 ->801 ->640 ->
                                       70 \ -> 378 \ -> 643 \ -> 279 \ -> 12 \ -> 632 \ -> 263 \ -> 553 \ -> 631 \ -> 118 \ -> 78 \ -> 13 \ -> 896 \ -> 31 \ -> 435 \ -> 792 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 12 \ -> 1
                                                                                                   ->41 ->777 ->523 ->271 ->
                                         264 \ -> 145 \ -> 139 \ -> 565 \ -> 387 \ -> 389 \ -> 895 \ -> 767 \ -> 267 \ -> 189 \ -> 149 \ -> 897 \ -> 807 \ -> 261 \ -> 766 \ -> 189 \ -> 149 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 1
                                                                                             ->163 ->574 ->628 ->885 ->406 ->
212 \ 508 \ ->507 \ ->650 \ ->416 \ ->424 \ ->788 \ ->516 \ ->259 \ ->20 \ ->514 \ ->29 \ ->552 \ ->404 \ ->148 \ ->562 \ ->881
                                                                                                         ->641 ->903 ->38 ->147 ->
213 \ \ 37 \ \ ->513 \ \ ->141 \ \ ->258 \ \ ->254 \ \ ->759 \ \ ->8 \ \ ->381 \ \ ->757 \ \ ->756 \ \ ->137 \ \ ->253 \ \ ->456 \ \ ->256 \ \ ->380 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ ->883 \ \ -
                                                                                                 ->884 ->506 ->634 ->887 ->
214 \quad 524 \quad ->18 \quad ->376 \quad ->758 \quad ->14 \quad ->34 \quad ->811 \quad ->379 \quad ->876 \quad ->762 \quad ->880 \quad ->754 \quad ->760 \quad ->22 \quad ->845 \quad ->526 \quad ->754 \quad ->760 \quad ->22 \quad ->845 \quad ->526 \quad ->760 \quad ->22 \quad ->845 \quad ->760 \quad ->22 \quad ->845 \quad ->760 \quad ->760 \quad ->760 \quad ->22 \quad ->845 \quad ->760 \quad ->7
                                                                                               ->503 ->129 ->783 ->323 ->
                                         779 \ -> 504 \ -> 891 \ -> 7 \ -> 10 \ -> 25 \ -> 383 \ -> 512 \ -> 627 \ -> 386 \ -> 132 \ -> 645 \ -> 35 \ -> 753 \ -> 502 \ -> 909 \ -> 4000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 10000
                                                                                                         ->877 ->764 ->407 ->
216 \quad 156 \quad ->531 \quad ->288 \quad ->125 \quad ->405 \quad ->133 \quad ->625 \quad ->126 \quad ->30 \quad ->11 \quad ->875 \quad ->128 \quad ->375 \quad ->393 \quad ->893 \quad ->626 \quad ->126 \quad ->300 \quad ->11 \quad ->875 \quad ->128 \quad ->375 \quad ->393 \quad ->893 \quad ->626 \quad ->126 \quad ->300 \quad ->11 \quad ->875 \quad ->128 \quad ->375 \quad ->393 \quad ->893 \quad ->626 \quad ->126 \quad ->300 \quad ->11 \quad ->875 \quad ->128 \quad ->375 \quad ->393 \quad ->893 \quad ->626 \quad ->126 \quad ->300 \quad ->11 \quad ->875 \quad ->128 \quad ->375 \quad ->393 \quad ->893 
                                                                                          ->127 ->252 ->755 ->878 ->
                                       ->16 ->0 ->1 ->
219 Time: 13.7177257919684052
```

2 Iteration

```
1 Length: 5659
      \begin{smallmatrix} 3 & 1 & ->265 & ->148 & ->843 & ->966 & ->718 & ->535 & ->336 & ->776 & ->472 & ->208 & ->827 & ->151 & ->31 & ->916 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->197 & ->1
                                                                        ->359 ->915 ->846 ->476 ->
        4\ 417\ ->421\ ->872\ ->120\ ->929\ ->339\ ->452\ ->225\ ->291\ ->647\ ->217\ ->464\ ->432\ ->185\ ->75\ ->51
                                                                        ->976 ->218 ->124 ->180 ->
        5\ 54\ ->\!243\ ->\!994\ ->\!325\ ->\!282\ ->\!689\ ->\!254\ ->\!738\ ->\!366\ ->\!166\ ->\!161\ ->\!711\ ->\!593\ ->\!89\ ->\!717\ ->\!899
                                                                             ->302 ->534 ->855 ->938 ->
        6\ 666\ ->741\ ->764\ ->102\ ->99\ ->312\ ->747\ ->238\ ->413\ ->576\ ->429\ ->986\ ->815\ ->645\ ->724\ ->168
                                                                                ->809 ->25 ->736 ->676 ->
        7\ \ 387\ \ ->948\ \ ->700\ \ ->260\ \ ->389\ \ ->989\ \ ->920\ \ ->223\ \ ->435\ \ ->437\ \ ->408\ \ ->457\ \ ->412\ \ ->658\ \ ->913
                                                                               ->162 ->353 ->816 ->540 ->346 ->
                        ->708 ->344 ->44 ->129 ->614 ->
                        117 \; -> 438 \; -> 607 \; -> 329 \; -> 665 \; -> 152 \; -> 735 \; -> 782 \; -> 473 \; -> 581 \; -> 599 \; -> 481 \; -> 202 \; -> 943 \; -> 349 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 10000 \; -> 1000 \; -> 10000 \; -> 1000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 100
                                                                        ->267 ->489 ->264 ->562 ->471 ->
                           632 \ -> 621 \ -> 431 \ -> 497 \ -> 115 \ -> 0 \ -> 73 \ -> 840 \ -> 420 \ -> 69 \ -> 157 \ -> 6 \ -> 281 \ -> 555 \ -> 898 \ -> 549 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -
                                                                       ->817 ->794 ->884 ->999 ->
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                                                                       ->951 ->227 ->753 ->221 ->692 ->
12 \ 142 \ ->272 \ ->8 \ ->998 \ ->959 \ ->460 \ ->554 \ ->836 \ ->983 \ ->618 \ ->326 \ ->246 \ ->198 \ ->634 \ ->887 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->2
                                                                               ->914 ->289 ->396 ->132 ->
13 \ 199 \ -> 556 \ -> 657 \ -> 502 \ -> 610 \ -> 671 \ -> 337 \ -> 258 \ -> 615 \ -> 158 \ -> 970 \ -> 24 \ -> 182 \ -> 678 \ -> 511 \ -> 328 \ -> 678 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ 
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                                                                           ->10 ->477 ->150 ->280 ->
16 \ 558 \ -> 322 \ -> 637 \ -> 222 \ -> 778 \ -> 910 \ -> 352 \ -> 135 \ -> 680 \ -> 341 \ -> 777 \ -> 729 \ -> 60 \ -> 950 \ -> 196 \ -> 463 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ 
                                                                                ->317 ->427 ->235 ->644 ->
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                                                                                ->145 ->789 ->171 ->292 ->
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                                                                           ->583 ->369 ->832 ->174 ->
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                                                                               ->586 ->806 ->363 ->284 ->
20 \ \ 204 \ \ ->93 \ \ ->140 \ \ ->775 \ \ ->685 \ \ ->942 \ \ ->375 \ \ \ ->550 \ \ ->523 \ \ ->847 \ \ ->954 \ \ ->176 \ \ ->160 \ \ ->953 \ \ ->125 \ \ ->504
                                                                                   ->393 ->105 ->673 ->622 ->
21 \ 469 \ ->345 \ ->585 \ ->495 \ ->807 \ ->114 \ ->119 \ ->294 \ ->572 \ ->487 \ ->907 \ ->733 \ ->95 \ ->321 \ ->189 \ ->624 \ ->907 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->700 \ ->
                                                      ->896 ->895 ->358 ->34 ->
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22\ 740\ ->852\ ->802\ ->400\ ->314\ ->211\ ->172\ ->968\ ->965\ ->955\ ->770\ ->392\ ->967\ ->828\ ->287
                                                                      ->761 ->141 ->465 ->958 ->897 ->
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                                                                                 ->752 ->571 ->625 ->969 ->
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                                                                            ->797 ->728 ->575 ->91 ->
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                                                                                    ->751 ->820 ->783 ->595 ->
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                                                                                   ->693 ->475 ->443 ->512 ->
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                                                                       ->925 ->466 ->853 ->648 ->
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                                                                       ->365 ->696 ->186 ->104 ->
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                                                                                   ->698 ->546 ->980 ->796 ->
                         565 \ -> 991 \ -> 256 \ -> 338 \ -> 181 \ -> 823 \ -> 377 \ -> 403 \ -> 750 \ -> 928 \ -> 418 \ -> 74 \ -> 882 \ -> 479 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 87
                                                                           ->667 ->378 ->944 ->805 ->
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                                                                              ->424 ->539 ->354 ->831 ->
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                                                                            ->651 ->484 ->957 ->66 ->
                         286 \ -> 863 \ -> 399 \ -> 498 \ -> 4 \ -> 226 \ -> 348 \ -> 96 \ -> 743 \ -> 578 \ -> 981 \ -> 865 \ -> 510 \ -> 232 \ -> 962 \ -> 212
                                                                            ->250 ->422 ->707 ->640 ->
                         756 \ -> 784 \ -> 379 \ -> 288 \ -> 661 \ -> 65 \ -> 194 \ -> 871 \ -> 128 \ -> 617 \ -> 730 \ -> 241 \ -> 454 \ -> 603 \ -> 818 \ -> 600 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1
                                                                                    ->598 ->147 ->675 ->931 ->
 41\ 876\ ->758\ ->620\ ->22\ ->26\ ->668\ ->909\ ->854\ ->772\ ->137\ ->993\ ->683\ ->787\ ->13\ ->430\ ->861
                                                                       ->36 ->451 ->478 ->580 ->
                         409 -> 303 -> 810 -> 507 -> 195 -> 299 -> 697 -> 628 -> 531 -> 893 -> 423 -> 563 -> 934 -> 557 -> 146
                                                                               ->301 ->845 ->786 ->343 ->79 ->
 43 \ 731 \ ->710 \ ->699 \ ->3 \ ->92 \ ->924 \ ->240 \ ->705 \ ->559 \ ->694 \ ->702 \ ->276 \ ->536 \ ->582 \ ->297 \ ->545 \ ->545 \ ->694 \ ->702 \ ->276 \ ->536 \ ->582 \ ->297 \ ->545 \ ->694 \ ->702 \ ->276 \ ->582 \ ->9297 \ ->545 \ ->694 \ ->702 \ ->276 \ ->582 \ ->9297 \ ->545 \ ->694 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->702 \ ->
                                                                           ->37 ->53 ->801 ->179 ->
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                                                                         ->639 ->972 ->55 ->990 ->
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                                                                           ->590 ->635 ->926 ->239 ->
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                                                                       ->126 ->488 ->395 ->215 ->
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                                                                            ->519 ->224 ->298 ->64 ->
 48 \ 12 \ -> 606 \ -> 690 \ -> 930 \ -> 613 \ -> 216 \ -> 242 \ -> 674 \ -> 501 \ -> 71 \ -> 527 \ -> 858 \ -> 279 \ -> 169 \ -> 305 \ -> 988 \ -> 279 \ -> 169 \ -> 305 \ -> 988 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -
                                                                         ->367 ->701 ->749 ->633 ->
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                                                                               ->890 ->788 ->987 ->273 ->577 ->
                           992 \; ->\! 873 \; ->\! 521 \; ->\! 642 \; ->\! 277 \; ->\! 38 \; ->\! 163 \; ->\! 275 \; ->\! 682 \; ->\! 50 \; ->\! 149 \; ->\! 390 \; ->\! 774 \; ->\! 851 \; ->\! 551 \; ->\! 323 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 10000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; -> 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 10000 \; ->\! 10000 \; ->\! 100000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; 
                                                                         ->456 ->436 ->178 ->973 ->
                         248 \ -> 15 \ -> 889 \ -> 506 \ -> 47 \ -> 638 \ -> 493 \ -> 900 \ -> 528 \ -> 997 \ -> 791 \ -> 813 \ -> 62 \ -> 952 \ -> 455 \ -> 213
                                                                      ->947 ->269 ->655 ->919 ->
                       133 \ -> 553 \ -> 139 \ -> 253 \ -> 811 \ -> 402 \ -> 891 \ -> 482 \ -> 351 \ -> 156 \ -> 113 \ -> 308 \ -> 138 \ -> 80 \ -> 679 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 130 \ -> 13
                                                                    ->857 ->207 ->57 ->201 ->868 ->
 54 Time: 52.7259218120016158
56 Length: 6076
 58\ 1\ ->265\ ->625\ ->381\ ->250\ ->811\ ->869\ ->302\ ->56\ ->364\ ->255\ ->711\ ->471\ ->870\ ->496\ ->672
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->752 ->856 ->860 ->523 ->
  59 \ 450 \ ->330 \ ->667 \ ->378 \ ->571 \ ->769 \ ->708 \ ->959 \ ->966 \ ->764 \ ->961 \ ->326 \ ->246 \ ->349 \ ->493
                                                                                              ->223 ->435 ->792 ->911 ->480 ->
                                  97 -> 243 -> 994 -> 651 -> 485 -> 346 -> 977 -> 167 -> 307 -> 855 -> 871 -> 670 -> 484 -> 979 -> 365 -> 382 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 1
                                                                                                          ->428 ->459 ->591 ->984 ->
                                332 \ ->\!813 \ ->\!785 \ ->\!221 \ ->\!455 \ ->\!375 \ ->\!373 \ ->\!256 \ ->\!291 \ ->\!790 \ ->\!96 \ ->\!321 \ ->\!189 \ ->\!352 \ ->\!644 \ ->\!932
                                                                                                          ->990 ->936 ->993 ->913 ->
                                773 \; -{>}457 \; -{>}303 \; -{>}782 \; -{>}473 \; -{>}312 \; -{>}125 \; -{>}498 \; -{>}914 \; -{>}289 \; -{>}925 \; -{>}466 \; -{>}618 \; -{>}370 \; -{>}252 \; -{>}466 \; -{>}618 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}473 \; -{>}370 \; -{>}252 \; -{>}470 \; -{>}252 \; -{>}470 \; -{>}252 \; -{>}470 \; -{>}252 \; -{>}470 \; -{>}252 \; -{>}470 \; -{>}252 \; -{>}470 \; -{>}252 \; -{>}470 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 \; -{>}252 
                                                                                                    ->453 ->445 ->717 ->324 ->859 ->
                                975 \ -> 622 \ -> 601 \ -> 858 \ -> 724 \ -> 898 \ -> 267 \ -> 489 \ -> 887 \ -> 13 \ -> 338 \ -> 978 \ -> 74 \ -> 495 \ -> 438 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194 \ -> 194
                                                                                              ->448 ->175 ->866 ->335 ->
  64 \quad 294 \quad ->262 \quad ->765 \quad ->923 \quad ->306 \quad ->129 \quad ->614 \quad ->832 \quad ->863 \quad ->487 \quad ->907 \quad ->689 \quad ->933 \quad ->725 \quad ->400 \quad ->923 \quad ->921 \quad ->921 \quad ->922 \quad -
                                                                                                      ->956 ->815 ->972 ->245 ->616 ->
  65 \quad 275 \quad ->682 \quad ->532 \quad ->478 \quad ->657 \quad ->46 \quad ->802 \quad ->761 \quad ->443 \quad ->405 \quad ->389 \quad ->161 \quad ->889 \quad ->771 \quad ->654 \quad ->411 \quad ->889 \quad ->771 \quad ->654 \quad ->889 \quad ->771 \quad ->889 \quad ->771 \quad ->889 \quad ->771 \quad ->654 \quad ->889 \quad ->771 \quad ->889 \quad ->889 \quad ->771 \quad ->889 \quad ->889 \quad ->711 \quad ->889 \quad ->771 \quad ->889 \quad ->889 \quad ->711 \quad ->889 \quad ->
                                                                                                            ->894 ->439 ->366 ->987 ->
  66 \quad 273 \quad ->706 \quad ->864 \quad ->290 \quad ->397 \quad ->138 \quad ->527 \quad ->845 \quad ->712 \quad ->163 \quad ->464 \quad ->432 \quad ->287 \quad ->970 \quad ->695 \quad ->864 \quad ->297 \quad ->867 \quad -
                                                                                              ->680 ->341 ->897 ->462 ->215 ->
                                    449 \ ->477 \ ->958 \ ->350 \ ->720 \ ->744 \ ->598 \ ->499 \ ->937 \ ->421 \ ->754 \ ->804 \ ->658 \ ->738 \ ->916 \ ->937 \ ->421 \ ->754 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 \ ->804 
                                                                                                  ->197 ->359 ->915 ->850 ->947 ->
                                867 \ -> 238 \ -> 413 \ -> 852 \ -> 767 \ -> 985 \ -> 982 \ -> 408 \ -> 594 \ -> 627 \ -> 109 \ -> 833 \ -> 935 \ -> 713 \ -> 123
                                                                                           ->173 ->840 ->420 ->707 ->368 ->
                                842 \ ->274 \ ->185 \ ->847 \ ->954 \ ->938 \ ->666 \ ->741 \ ->202 \ ->931 \ ->876 \ ->374 \ ->494 \ ->922 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 \ ->877 
                                                                                                      ->647 ->217 ->567 ->581 ->655 ->
  70 \quad 234 \quad ->910 \quad ->901 \quad ->755 \quad ->476 \quad ->417 \quad ->918 \quad ->806 \quad ->944 \quad ->737 \quad ->429 \quad ->821 \quad ->184 \quad ->272 \quad ->653 \quad ->918 \quad -
                                                                                              ->544 ->605 ->270 ->778 ->66 ->
                                  895 \ -> 340 \ -> 862 \ -> 260 \ -> 423 \ -> 974 \ -> 427 \ -> 824 \ -> 315 \ -> 934 \ -> 446 \ -> 219 \ -> 295 \ -> 968 \ -> 731
                                                                                                      ->141 ->465 ->325 ->574 ->691 ->
                                  176 \; ->\! 841 \; ->\! 843 \; ->\! 334 \; ->\! 433 \; ->\! 995 \; ->\! 776 \; ->\! 886 \; ->\! 230 \; ->\! 760 \; ->\! 190 \; ->\! 868 \; ->\! 436 \; ->\! 383 \; ->\! 881 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 \; ->\! 841 
                                                                                                  ->157 ->805 ->288 ->816 ->183 ->
                                    424 \; -> 347 \; -> 205 \; -> 280 \; -> 419 \; -> 155 \; -> 416 \; -> 564 \; -> 104 \; -> 633 \; -> 388 \; -> 490 \; -> 664 \; -> 939 \; -> 204 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 104 \; -> 1
                                                                                              ->283 ->293 ->908 ->839 ->927 ->
                                  220 \ -> 127 \ -> 729 \ -> 964 \ -> 339 \ -> 452 \ -> 225 \ -> 981 \ -> 345 \ -> 585 \ -> 198 \ -> 440 \ -> 829 \ -> 688 \ -> 846
                                                                                                      ->282 ->683 ->797 ->637 ->819 ->
                                118 \ -{>}310 \ -{>}998 \ -{>}300 \ -{>}95 \ -{>}474 \ -{>}659 \ -{>}83 \ -{>}41 \ -{>}884 \ -{>}999 \ -{>}72 \ -{>}463 \ -{>}810 \ -{>}472 \ -{>}650 \ -{>}83 \ -{>}472 \ -{>}650 \ -{>}83 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}810 \ -{>}
                                                                                              ->322 ->983 ->174 ->799 ->
                                  674 \ -> 853 \ -> 401 \ -> 216 \ -> 626 \ -> 783 \ -> 718 \ -> 152 \ -> 218 \ -> 636 \ -> 685 \ -> 249 \ -> 227 \ -> 753 \ -> 458 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                                                    ->928 ->111 ->407 ->646 ->756 ->
                                  784 \ -> 379 \ -> 193 \ -> 371 \ -> 479 \ -> 281 \ -> 271 \ -> 980 \ -> 268 \ -> 640 \ -> 948 \ -> 444 \ -> 369 \ -> 206 \ -> 258 \ -> 268 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                                                  ->394 ->576 ->714 ->809 ->703 ->
                                  621 \ -> 766 \ -> 391 \ -> 422 \ -> 660 \ -> 909 \ -> 854 \ -> 286 \ -> 240 \ -> 60 \ -> 950 \ -> 827 \ -> 694 \ -> 309 \ -> 488 \ -> 395 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 827 \ -> 82
                                                                                                          ->849 ->851 ->410 ->241 ->
                                254 \ -> 316 \ -> 967 \ -> 236 \ -> 84 \ -> 314 \ -> 353 \ -> 762 \ -> 611 \ -> 209 \ -> 342 \ -> 406 \ -> 610 \ -> 135 \ -> 747 \ -> 926
                                                                                                          ->903 ->188 ->470 ->199 ->
                                  486 \ -> 106 \ -> 896 \ -> 777 \ -> 822 \ -> 296 \ -> 201 \ -> 469 \ -> 172 \ -> 791 \ -> 299 \ -> 697 \ -> 304 \ -> 150 \ -> 540 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                                              ->165 ->826 ->251 ->844 ->491 ->
                                244 \ -> 615 \ -> 969 \ -> 835 \ -> 789 \ -> 171 \ -> 736 \ -> 311 \ -> 67 \ -> 878 \ -> 337 \ -> 595 \ -> 592 \ -> 101 \ -> 460 \ -> 554 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                                              ->836 ->893 ->684 ->124 ->
                                668 \ -> 409 \ -> 875 \ -> 404 \ -> 892 \ -> 609 \ -> 116 \ -> 228 \ -> 68 \ -> 669 \ -> 746 \ -> 795 \ -> 763 \ -> 132 \ -> 912 \ -> 317 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 11
                                                                                                          ->917 ->149 ->367 ->794 ->
  83 530 ->177 ->50 ->357 ->604 ->597 ->638 ->344 ->323 ->442 ->649 ->415 ->131 ->890 ->454 ->603
                                                                                                          ->426 ->412 ->467 ->558 ->
                                  235 \ -> 596 \ -> 222 \ -> 733 \ -> 953 \ -> 577 \ -> 992 \ -> 698 \ -> 482 \ -> 468 \ -> 807 \ -> 635 \ -> 162 \ -> 686 \ -> 578 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 1
                                                                                              ->951 ->356 ->879 ->329 ->98 ->
                                  955 \ -{>}770 \ -{>}772 \ -{>}645 \ -{>}148 \ -{>}247 \ -{>}343 \ -{>}781 \ -{>}120 \ -{>}991 \ -{>}848 \ -{>}333 \ -{>}377 \ -{>}354 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 \ -{>}663 
                                                                                              ->883 ->257 ->943 ->434 ->456 ->
                                  656 \ -> 100 \ -> 475 \ -> 372 \ -> 253 \ -> 702 \ -> 734 \ -> 919 \ -> 745 \ -> 945 \ -> 759 \ -> 971 \ -> 838 \ -> 61 \ -> 586 \ -> 818 \ -> 838 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                                          ->600 ->986 ->800 ->700 ->
                                208 \ -> 730 \ -> 593 \ -> 624 \ -> 817 \ -> 387 \ -> 430 \ -> 43 \ -> 318 \ -> 828 \ -> 88 \ -> 492 \ -> 153 \ -> 200 \ -> 203 \ -> 279 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                    ->385 ->775 ->710 ->301 ->
  88 \ 145 \ -> 705 \ -> 181 \ -> 823 \ -> 565 \ -> 617 \ -> 34 \ -> 292 \ -> 904 \ -> 727 \ -> 834 \ -> 313 \ -> 726 \ -> 550 \ -> 156 \ -> 277 \ -> 834 \ -> 313 \ -> 726 \ -> 550 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ -> 156 \ 
                                                                                                              ->186 ->187 ->402 ->599 ->
  89 \ \ 362 \ \ ->787 \ \ ->808 \ \ ->976 \ \ ->242 \ \ ->226 \ \ ->965 \ \ ->376 \ \ ->12 \ \ ->139 \ \ ->692 \ \ ->739 \ \ ->393 \ \ ->105 \ \ ->348 \ \ ->677 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ ->100 \ \ 
                                                                                                            ->681 ->962 ->212 ->921 ->
  ->997 ->549 ->590 ->425 ->
                                  584 \ -> 360 \ -> 69 \ -> 327 \ -> 579 \ -> 130 \ -> 857 \ -> 693 \ -> 570 \ -> 248 \ -> 112 \ -> 899 \ -> 709 \ -> 328 \ -> 79 \ -> 80
                                                                                                  ->76 ->573 ->518 ->47 ->
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->874 ->361 ->632 ->263 ->
            93 \ \ 331 \ \ -> 136 \ \ -> 49 \ \ -> 801 \ \ -> 989 \ \ -> 920 \ \ -> 169 \ \ -> 305 \ \ -> 545 \ \ -> 687 \ \ -> 902 \ \ -> 888 \ \ -> 358 \ \ -> 144 \ \ -> 113 \ \ -> 906 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100
                                                                                                                     ->566 ->665 ->722 ->64 ->
            94 \quad 276 \quad ->259 \quad ->900 \quad ->559 \quad ->414 \quad ->941 \quad ->607 \quad ->85 \quad ->715 \quad ->266 \quad ->82 \quad ->779 \quad ->147 \quad ->447 \quad ->319 \quad ->539 \quad ->539 \quad ->799 \quad ->147 \quad ->447 \quad ->319 \quad ->539 \quad ->147 \quad ->1
                                                                                                         ->91 ->211 ->403 ->182 ->
            95\ 678\ ->511\ ->170\ ->380\ ->613\ ->90\ ->820\ ->196\ ->418\ ->115\ ->623\ ->619\ ->541\ ->880\ ->996\ ->160
                                                                                                                   ->103 ->224 ->298 ->555 ->
                                          582 \; -> 837 \; -> 75 \; -> 642 \; -> 662 \; -> 748 \; -> 963 \; -> 671 \; -> 146 \; -> 675 \; -> 117 \; -> 631 \; -> 351 \; -> 59 \; -> 320 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780 \; -> 780
                                                                                                       ->774 ->872 ->930 ->239 ->
          97\ \ 21\ \ ->15\ \ ->608\ \ ->54\ \ ->133\ \ ->384\ \ ->749\ \ ->560\ \ ->652\ \ ->483\ \ ->42\ \ ->905\ \ ->548\ \ ->121\ \ ->728\ \ ->62
                                                                                                   ->99 ->355 ->634 ->536 ->
          98 \quad 24 \quad ->210 \quad ->629 \quad ->798 \quad ->510 \quad ->735 \quad ->58 \quad ->137 \quad ->437 \quad ->398 \quad ->386 \quad ->35 \quad ->513 \quad ->396 \quad ->942 \quad ->285 \quad ->386 \quad ->38
                                                                                                             ->20 ->213 ->517 ->673 ->
            99 \ \ 37 \ \ -> 831 \ \ -> 308 \ \ -> 793 \ \ -> 529 \ \ -> 92 \ \ -> 924 \ \ -> 701 \ \ -> 128 \ \ -> 52 \ \ -> 732 \ \ -> 952 \ \ -> 535 \ \ -> 336 \ \ -> 940 \ \ -> 988 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \ \ -> 100 \
                                                                                                         ->32 ->587 ->261 ->563 ->
  100 \ 151 \ ->643 \ ->45 \ ->119 \ ->882 \ ->497 \ ->630 \ ->451 \ ->572 \ ->192 \ ->830 \ ->628 \ ->143 \ ->214 \ ->57 \ ->546 \ ->100 \ ->500 \ ->500 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->
                                                                                                     ->699 ->538 ->168 ->873 ->
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                                                                                                     ->547 ->237 ->602 ->411 ->
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                                                                                                   ->25 ->39 ->65 ->53 ->
  ->522 ->612 ->18 ->38 ->
  104 \ 552 \ ->758 \ ->461 \ ->264 \ ->363 \ ->504 \ ->723 \ ->704 \ ->178 \ ->14 \ ->23 \ ->537 \ ->557 \ ->11 \ ->19 \ ->533 \ ->537 \ ->567 \ ->11 \ ->19 \ ->533 \ ->537 \ ->567 \ ->11 \ ->19 \ ->533 \ ->537 \ ->567 \ ->11 \ ->19 \ ->533 \ ->537 \ ->567 \ ->11 \ ->19 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ ->10 \ -
                                                                                                       ->750 ->195 ->696 ->690 ->
  105 \ 525 \ -> 16 \ -> 29 \ -> 55 \ -> 17 \ -> 179 \ -> 77 \ -> 562 \ -> 929 \ -> 297 \ -> 949 \ -> 514 \ -> 51 \ -> 232 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -> 86 \ -> 3 \ -
                                                                                                             ->26 ->515 ->553 ->
                                          126 \ -> 524 \ -> 648 \ -> 679 \ -> 501 \ -> 569 \ -> 87 \ -> 661 \ -> 589 \ -> 7 \ -> 520 \ -> 508 \ -> 507 \ -> 575 \ -> 22 \ -> 10
                                                                                                     ->526 ->551 ->154 ->757 ->
                                          502 \ ->114 \ ->48 \ ->505 \ ->521 \ ->542 \ ->512 \ ->506 \ ->509 \ ->519 \ ->2 \ ->6 \ ->9 \ ->4 \ ->71 \ ->500 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ ->503 \ 
                                                                                               ->30 ->5 ->0 ->
109 Time: 34.8287891470827162
111 Length: 7088
112
  113 \ 2 \ -> 210 \ -> 471 \ -> 688 \ -> 846 \ -> 476 \ -> 159 \ -> 636 \ -> 886 \ -> 482 \ -> 484 \ -> 957 \ -> 383 \ -> 715 \ -> 386 \ -> 919 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ 
                                                                                                       ->456 ->685 ->735 ->782 ->
  114 \quad 245 \quad ->698 \quad ->463 \quad ->182 \quad ->214 \quad ->978 \quad ->479 \quad ->875 \quad ->417 \quad ->206 \quad ->632 \quad ->621 \quad ->151 \quad ->465 \quad ->748 \quad 
                                                                                                     ->963 ->986 ->133 ->459 ->922 ->
115 \ 740 \ -> 868 \ -> 179 \ -> 924 \ -> 409 \ -> 234 \ -> 444 \ -> 971 \ -> 197 \ -> 645 \ -> 148 \ -> 247 \ -> 108 \ -> 711 \ -> 181
                                                                                                               ->494 ->996 ->470 ->670 ->721 ->
  116\ 714\ ->725\ ->400\ ->914\ ->192\ ->898\ ->155\ ->416\ ->189\ ->883\ ->955\ ->224\ ->487\ ->644\ ->332
                                                                                                           ->716 ->127 ->438 ->861 ->973 ->
                                            683 \; ->\! 477 \; ->\! 150 \; ->\! 280 \; ->\! 419 \; ->\! 123 \; ->\! 173 \; ->\! 840 \; ->\! 420 \; ->\! 707 \; ->\! 640 \; ->\! 907 \; ->\! 729 \; ->\! 964 \; ->\! 719 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 \; ->\! 120 
                                                                                                     ->904 ->220 ->313 ->724 ->941 ->
                                              244 \ -> 418 \ -> 656 \ -> 427 \ -> 235 \ -> 980 \ -> 680 \ -> 341 \ -> 351 \ -> 947 \ -> 145 \ -> 139 \ -> 959 \ -> 460 \ -> 712 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 1
                                                                                                       ->163 ->480 ->363 ->248 ->916 ->
  119\ 217\ ->464\ ->457\ ->207\ ->737\ ->429\ ->936\ ->658\ ->738\ ->195\ ->209\ ->958\ ->699\ ->327\ ->727
                                                                                                   -{>}371 \ -{>}227 \ -{>}119 \ -{>}985 \ -{>}982 \ -{>}
  ->929 ->135 ->425 ->648 ->
                                          646 \ -{>}710 \ -{>}168 \ -{>}809 \ -{>}966 \ -{>}218 \ -{>}393 \ -{>}990 \ -{>}450 \ -{>}673 \ -{>}879 \ -{>}667 \ -{>}903 \ -{>}188 \ -{>}198 \ -{>}198 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 
                                                                                                       ->440 ->818 ->600 ->413 ->364 ->
                                          760 \; -> 944 \; -> 321 \; -> 211 \; -> 172 \; -> 499 \; -> 937 \; -> 421 \; -> 722 \; -> 454 \; -> 603 \; -> 433 \; -> 373 \; -> 597 \; -> 638 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 1
                                                                                                             ->368 ->361 ->80 ->165 ->317 ->
                                            225 \ ->981 \ ->226 \ ->746 \ ->439 \ ->882 \ ->495 \ ->358 \ ->634 \ ->887 \ ->396 \ ->428 \ ->826 \ ->830 \ ->962 \ ->962 \ ->860 \ ->860 \ ->880 \ ->962 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 \ ->860 
                                                                                                       ->212 ->663 ->930 ->239 ->481 ->
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                                          208 \; -> 392 \; -> 888 \; -> 97 \; -> 378 \; -> 884 \; -> 589 \; -> 136 \; -> 488 \; -> 395 \; -> 215 \; -> 995 \; -> 90 \; -> 342 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 340 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187 \; -> 187
                                                                                                      ->862 ->771 ->921 ->379 ->
                                      153 \ -> 132 \ -> 199 \ -> 486 \ -> 412 \ -> 422 \ -> 660 \ -> 98 \ -> 902 \ -> 687 \ -> 585 \ -> 951 \ -> 705 \ -> 405 \ -> 389 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 989 \ -> 98
                                                                                                                      ->406 ->877 ->591 ->703 ->
                                          674 \;\; -> 853 \;\; -> 122 \;\; -> 297 \;\; -> 462 \;\; -> 221 \;\; -> 359 \;\; -> 901 \;\; -> 932 \;\; -> 403 \;\; -> 630 \;\; -> 592 \;\; -> 337 \;\; -> 814 \;\; -> 310 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 
                                                                                                      ->115 ->623 ->619 ->541 ->842 ->
  139 \ 158 \ ->478 \ ->580 \ ->84 \ ->455 \ ->213 \ ->952 \ ->249 \ ->87 \ ->596 \ ->336 \ ->106 \ ->896 \ ->661 \ ->65 \ ->246 \ ->246 \ ->65 \ ->246 \ ->65 \ ->246 \ ->65 \ ->246 \ ->65 \ ->246 \ ->65 \ ->65 \ ->246 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 \ ->65 
                                                                                                      ->492 ->8 ->874 ->285 ->
                                            360 \; -{>}348 \; -{>}677 \; -{>}681 \; -{>}647 \; -{>}430 \; -{>}296 \; -{>}201 \; -{>}369 \; -{>}851 \; -{>}177 \; -{>}316 \; -{>}410 \; -{>}565 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 \; -{>}468 
                                                                                                      ->142 ->805 ->223 ->594 ->615 ->
                                          190 \ -> 780 \ -> 366 \ -> 987 \ -> 701 \ -> 128 \ -> 294 \ -> 723 \ -> 116 \ -> 970 \ -> 869 \ -> 841 \ -> 622 \ -> 905 \ -> 954
                                                                                                    ->100 ->447 ->728 ->895 ->232 ->
                                              629 \ -> 697 \ -> 628 \ -> 885 \ -> 89 \ -> 863 \ -> 149 \ -> 171 \ -> 801 \ -> 147 \ -> 693 \ -> 817 \ -> 118 \ -> 51 \ -> 806 \ -> 170 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118 \ -> 118
                                                                                                      ->380 ->682 ->532 ->451 ->
                                          45 \ -> 605 \ -> 72 \ -> 312 \ -> 747 \ -> 926 \ -> 988 \ -> 927 \ -> 426 \ -> 125 \ -> 452 \ -> 810 \ -> 472 \ -> 696 \ -> 372 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183
                                                                                                        ->824 ->613 ->827 ->436 ->
144 \ 559 \ ->414 \ ->109 \ ->441 \ ->894 \ ->63 \ ->229 \ ->915 \ ->345 \ ->314 \ ->78 \ ->40 \ ->103 \ ->228 \ ->113 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->836 \ ->8
                                                                                                            ->946 ->843 ->859 ->550 ->
    145 \ 156 \ -> 920 \ -> 564 \ -> 446 \ -> 997 \ -> 791 \ -> 624 \ -> 734 \ -> 308 \ -> 618 \ -> 169 \ -> 560 \ -> 490 \ -> 664 \ -> 233 \ -> 618 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 \ -> 169 
                                                                                                        ->743 ->287 ->292 ->908 ->401 ->
  ->828 ->66 ->561 ->872 ->
                                            813 \ -> 702 \ -> 112 \ -> 899 \ -> 134 \ -> 864 \ -> 69 \ -> 390 \ -> 798 \ -> 377 \ -> 881 \ -> 878 \ -> 354 \ -> 831 \ -> 82 \ -> 855 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856 \ -> 856
                                                                                                            ->796 ->584 ->131 ->291 ->
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                                                                                                      ->141 ->286 ->92 ->96 ->
149
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                                                                                                      ->306 ->320 ->305 ->545 ->
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                                                                                                          ->655 ->31 ->23 ->516 ->
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                                                                                                      ->568 ->579 ->325 ->298 ->
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                                                                                                                  ->288 ->775 ->28 ->768 ->
  158 \ 573 \ -> 779 \ -> 260 \ -> 764 \ -> 799 \ -> 46 \ -> 264 \ -> 753 \ -> 551 \ -> 552 \ -> 758 \ -> 838 \ -> 16 \ -> 300 \ -> 272 \ -> 758 \ -> 838 \ -> 16 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -
                                                                                                      ->781 ->21 ->289 ->15 ->
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                                                                                                      ->253 ->767 ->785 ->11 ->
161 \quad 19 \quad -> 117 \quad -> 527 \quad -> 293 \quad -> 522 \quad -> 519 \quad -> 504 \quad -> 757 \quad -> 763 \quad -> 261 \quad -> 59 \quad -> 257 \quad -> 513 \quad -> 250 \quad -> 523 \quad -> 525 \quad 
                                                                                                      ->754 ->505 ->517 ->503 ->
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                                                                                          ->1 ->3 ->
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163 2 ->
164 Time: 26.5923148076981306
165
 166 Length: 8789
167
                                        4 -> 88 -> 962 -> 844 -> 491 -> 486 -> 854 -> 733 -> 236 -> 84 -> 309 -> 591 -> 873 -> 366 -> 961 -> 297
                                                                                                ->462 ->105 ->202 ->664 ->
                                        217 \; -> 725 \; -> 697 \; -> 610 \; -> 99 \; -> 572 \; -> 709 \; -> 956 \; -> 981 \; -> 62 \; -> 342 \; -> 103 \; -> 433 \; -> 373 \; -> 860 \; -> 424 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103 \; -> 103
                                                                                                        ->843 ->597 ->566 ->990 ->
 ->192 ->812 ->350 ->720 ->
                                        695 \ -> 826 \ -> 830 \ -> 440 \ -> 829 \ -> 621 \ -> 600 \ -> 986 \ -> 800 \ -> 91 \ -> 954 \ -> 938 \ -> 472 \ -> 326 \ -> 246 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 612 \ -> 61
                                                                                                                        ->466 ->672 ->979 ->737 ->
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                                                                                                  ->838 ->714 ->809 ->618 ->
                                        823 \ -> 937 \ -> 227 \ -> 944 \ -> 359 \ -> 343 \ -> 593 \ -> 89 \ -> 327 \ -> 727 \ -> 560 \ -> 358 \ -> 395 \ -> 564 \ -> 122 \ -> 976 \ -> 122 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 12
                                                                                                            ->928 ->207 ->106 ->736 ->
                                            341 \ -> 348 \ -> 249 \ -> 936 \ -> 995 \ -> 496 \ -> 480 \ -> 119 \ -> 684 \ -> 706 \ -> 864 \ -> 492 \ -> 721 \ -> 694 \ -> 111
                                                                                                      ->722 ->357 ->604 ->403 ->95 ->
                                          474 \; -> 726 \; -> 344 \; -> 301 \; -> 123 \; -> 971 \; -> 940 \; -> 745 \; -> 945 \; -> 487 \; -> 872 \; -> 120 \; -> 70 \; -> 239 \; -> 978 \; -> 734 \; -> 120 \; -> 70 \; -> 120 \; -> 70 \; -> 120 \; -> 70 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \; -> 120 \;
                                                                                                            ->162 ->711 ->842 ->186 ->
 176\ \ 104\ \ ->481\ \ ->493\ \ ->223\ \ ->622\ \ ->601\ \ ->317\ \ ->81\ \ ->48\ \ ->244\ \ ->991\ \ ->987\ \ ->724\ \ ->477\ \ ->861\ \ ->973\ \ ->724\ \ ->997\ \ ->724\ \ ->477\ \ ->861\ \ ->973\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->724\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ \ ->997\ 
                                                                                                          ->46 ->728 ->958 ->556 ->
                                        998 \ -> 93 \ -> 852 \ -> 888 \ -> 607 \ -> 438 \ -> 329 \ -> 748 \ -> 851 \ -> 85 \ -> 708 \ -> 827 \ -> 841 \ -> 475 \ -> 923 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867 \ -> 867
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                                        573 \; ->\!847 \; ->\!934 \; ->\!363 \; ->\!248 \; ->\!117 \; ->\!228 \; ->\!71 \; ->\!848 \; ->\!110 \; ->\!221 \; ->\!665 \; ->\!676 \; ->\!808 \; ->\!191 \; ->\!328 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\!100 \; ->\hspace100 \; ->\hspace10
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                                        924 \quad ->374 \quad ->187 \quad ->194 \quad ->935 \quad ->620 \quad ->449 \quad ->225 \quad ->715 \quad ->988 \quad ->989 \quad ->464 \quad ->570 \quad ->943 \quad ->746 
                                                                                                        ->439 ->855 ->972 ->747 ->238 ->
 180 \ 56 \ -> 364 \ -> 234 \ -> 595 \ -> 699 \ -> 461 \ -> 617 \ -> 730 \ -> 586 \ -> 688 \ -> 497 \ -> 853 \ -> 101 \ -> 286 \ -> 240 \ -> 479 \ -> 479 \ -> 853 \ -> 101 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \
                                                                                                            ->116 ->72 ->463 ->52 ->
                                        582 \ -> 592 \ -> 219 \ -> 603 \ -> 548 \ -> 605 \ -> 482 \ -> 468 \ -> 108 \ -> 495 \ -> 578 \ -> 67 \ -> 211 \ -> 707 \ -> 368 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 948 \ -> 94
                                                                                                                ->183 ->616 ->999 ->531 ->
                                        224 \ -{>}704 \ -{>}178 \ -{>}673 \ -{>}850 \ -{>}679 \ -{>}685 \ -{>}942 \ -{>}903 \ -{>}188 \ -{>}442 \ -{>}476 \ -{>}417 \ -{>}323 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 \ -{>}232 
                                                                                                      ->574 ->712 ->218 ->322 ->210 ->
                                          589 \ -> 701 \ -> 124 \ -> 180 \ -> 354 \ -> 212 \ -> 828 \ -> 455 \ -> 608 \ -> 54 \ -> 96 \ -> 738 \ -> 575 \ -> 520 \ -> 681 \ -> 237 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                          ->419 ->615 ->338 ->498 ->
                                        430 \; -> 460 \; -> 340 \; -> 614 \; -> 832 \; -> 863 \; -> 624 \; -> 859 \; -> 975 \; -> 678 \; -> 197 \; -> 585 \; -> 951 \; -> 241 \; -> 454 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 1
                                                                                                      ->174 ->683 ->690 ->431 ->336 ->
                                        691 \ -> 164 \ -> 869 \ -> 590 \ -> 200 \ -> 792 \ -> 82 \ -> 689 \ -> 121 \ -> 247 \ -> 206 \ -> 932 \ -> 179 \ -> 611 \ -> 992 \ -> 411 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                                              ->499 ->196 ->349 ->427 ->
                                        235 \ -> 980 \ -> 555 \ -> 857 \ -> 231 \ -> 652 \ -> 974 \ -> 804 \ -> 658 \ -> 371 \ -> 814 \ -> 525 \ -> 970 \ -> 700 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 729 \ -> 7
                                                                                                        ->456 ->321 ->742 ->959 ->118 ->
                                        158 \; ->\! 866 \; ->\! 335 \; ->\! 671 \; ->\! 459 \; ->\! 316 \; ->\! 361 \; ->\! 80 \; ->\! 76 \; ->\! 483 \; ->\! 372 \; ->\! 541 \; ->\! 448 \; ->\! 346 \; ->\! 473 \; ->\! 401
                                                                                                ->865 ->831 ->441 ->356 ->
                                          409 \; ->\! 314 \; ->\! 443 \; ->\! 919 \; ->\! 559 \; ->\! 86 \; ->\! 209 \; ->\! 333 \; ->\! 713 \; ->\! 57 \; ->\! 732 \; ->\! 675 \; ->\! 467 \; ->\! 558 \; ->\! 360 \; ->\! 743 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 10000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \;
                                                                                                          ->598 ->451 ->968 ->436 ->
                                        547 \ ->\! 243 \ ->\! 797 \ ->\! 933 \ ->\! 719 \ ->\! 97 \ ->\! 291 \ ->\! 330 \ ->\! 205 \ ->\! 229 \ ->\! 435 \ ->\! 801 \ ->\! 602 \ ->\! 822 \ ->\! 997 \ ->\! 24
                                                                                                ->577 ->318 ->819 ->280 ->
 190 926 -> 581 -> 159 -> 623 -> 669 -> 594 -> 394 -> 576 -> 429 -> 703 -> 226 -> 399 -> 740 -> 868 -> 641 -> 65
                                                                                                              ->946 ->949 ->79 ->710 ->
                                          648 \ -> 193 \ -> 568 \ -> 561 \ -> 898 \ -> 874 \ -> 413 \ -> 51 \ -> 806 \ -> 278 \ -> 190 \ -> 613 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 432 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 659 \ -> 777 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 115 \ -> 11
                                                                                                              ->723 ->837 ->596 ->405 ->
                                          696 \ -> 584 \ -> 470 \ -> 422 \ -> 204 \ -> 283 \ -> 213 \ -> 840 \ -> 420 \ -> 161 \ -> 469 \ -> 345 \ -> 718 \ -> 793 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 735 \ -> 7
                                                                                                ->453 ->849 ->977 ->112 ->423 ->
                                          653 \ ->\! 421 \ ->\! 74 \ ->\! 798 \ ->\! 661 \ ->\! 109 \ ->\! 562 \ ->\! 606 \ ->\! 351 \ ->\! 534 \ ->\! 445 \ ->\! 963 \ ->\! 982 \ ->\! 325 \ ->\! 23 \ ->\! 549
                                                                                                  ->275 ->352 ->907 ->579 ->
 194 \ 176 \ -> 583 \ -> 518 \ -> 369 \ -> 165 \ -> 242 \ -> 25 \ -> 524 \ -> 546 \ -> 790 \ -> 290 \ -> 904 \ -> 353 \ -> 61 \ -> 744 \ -> 324 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ 
                                                                                                  ->702 ->888 ->488 ->313 ->
 ->177 ->50 ->149 ->367 ->
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                                                                                                    ->953 ->63 ->914 ->465 ->
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                                                                                                  ->147 ->447 ->337 ->563 ->
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                                                                                                          ->437 ->155 ->339 ->705 ->
199 \ \ 365 \ \ -> 32 \ \ -> 457 \ \ -> 921 \ \ -> 960 \ \ -> 821 \ \ -> 184 \ \ -> 567 \ \ -> 967 \ \ -> 634 \ \ -> 160 \ \ -> 185 \ \ -> 185 \ \ -> 846 \ \ -> 233 \ \ -> 544 \ \ -> 160 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 185 \ \ -> 18
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->551 ->450 ->910 ->398 ->
200 \quad 138 \quad ->402 \quad ->157 \quad ->201 \quad ->781 \quad ->428 \quad ->891 \quad ->536 \quad ->302 \quad ->950 \quad ->400 \quad ->557 \quad ->320 \quad ->319 \quad ->539 \quad 
                                                                                                                                ->925 ->782 ->717 ->646 ->915 ->
                                                   663 \; -\! >\! 37 \; -\! >\! 965 \; -\! >\! 55 \; -\! >\! 166 \; -\! >\! 167 \; -\! >\! 307 \; -\! >\! 277 \; -\! >\! 920 \; -\! >\! 306 \; -\! >\! 418 \; -\! >\! 785 \; -\! >\! 654 \; -\! >\! 146 \; -\! >\! 208 \; -\! >\! 392
                                                                                                                            ->452 ->312 ->922 ->30 ->
  202 \quad 131 \quad ->553 \quad ->406 \quad ->434 \quad ->182 \quad ->408 \quad ->49 \quad ->175 \quad ->388 \quad ->163 \quad ->805 \quad ->140 \quad ->527 \quad ->78 \quad ->315 \quad ->892 \quad ->180 \quad ->
                                                                                                                     ->40 ->883 ->554 ->304 ->
                                                 289 \ -> 396 \ -> 542 \ -> 521 \ -> 966 \ -> 26 \ -> 189 \ -> 397 \ -> 927 \ -> 666 \ -> 779 \ -> 969 \ -> 835 \ -> 789 \ -> 909 \ -> 803 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1
                                                                                                                                       ->651 ->660 ->530 ->643 ->
204 \ 152 \ -> 458 \ -> 517 \ -> 773 \ -> 170 \ -> 662 \ -> 295 \ -> 802 \ -> 18 \ -> 68 \ -> 151 \ -> 862 \ -> 20 \ -> 640 \ -> 58 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ ->
                                                                                                                  ->947 ->533 ->513 ->153 ->
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                                                                                                                                ->906 ->930 ->43 ->687 ->276 ->
                                                 913 \ -> 908 \ -> 929 \ -> 135 \ -> 807 \ -> 13 \ -> 172 \ -> 772 \ -> 137 \ -> 215 \ -> 410 \ -> 762 \ -> 272 \ -> 682 \ -> 642 \ -> 404 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                                                                     ->886 ->288 ->478 ->911 ->
207 \ 811 \ ->895 \ ->53 \ ->148 \ ->765 \ ->550 \ ->523 \ ->791 \ ->526 \ ->941 \ ->569 \ ->136 \ ->630 \ ->310 \ ->94 \ ->293 \ ->100 \ ->94 \ ->293 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->100 \ ->1
                                                                                                                     ->446 ->515 ->33 ->381 ->
                                                   142 \ -> 794 \ -> 256 \ -> 282 \ -> 656 \ -> 426 \ -> 382 \ -> 287 \ -> 931 \ -> 387 \ -> 545 \ -> 693 \ -> 768 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 670 \ -> 890 \ -> 890 \ -> 670 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 890 \ -> 8
                                                                                                                     ->887 ->631 ->917 ->647 ->11 ->
                                                 645 \ -> 912 \ -> 378 \ -> 637 \ -> 813 \ -> 150 \ -> 894 \ -> 519 \ -> 130 \ -> 609 \ -> 514 \ -> 27 \ -> 784 \ -> 884 \ -> 858 \ -> 279 \ -> 130 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                                                                ->169 ->412 ->628 ->885 ->
210 \ \ 386 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 836 \ \ -> 8
                                                                                                                                     ->407 ->644 ->12 ->636 ->
211 \ 75 \ -> 156 \ -> 414 \ -> 776 \ -> 141 \ -> 260 \ -> 296 \ -> 143 \ -> 257 \ -> 878 \ -> 379 \ -> 19 \ -> 897 \ -> 879 \ -> 881 \ -> 899 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ 
                                                                                                                     ->298 ->132 ->902 ->425 ->
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                                                                                                                                ->134 ->255 ->127 ->375 ->376 ->
                                                   759 \ -> 308 \ -> 7 \ -> 769 \ -> 270 \ -> 10 \ -> 504 \ -> 266 \ -> 8 \ -> 756 \ -> 508 \ -> 42 \ -> 764 \ -> 377 \ -> 195 \ -> 817 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -> 195 \ -
                                                                                                                       ->771 ->511 ->753 ->254 ->
                                                 29 \ -> 16 \ -> 66 \ -> 633 \ -> 783 \ -> 128 \ -> 294 \ -> 799 \ -> 795 \ -> 22 \ -> 444 \ -> 625 \ -> 775 \ -> 889 \ -> 786 \ -> 522 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \
                                                                                                                     ->284 ->532 ->757 ->896 ->
215 \quad 268 \quad ->2 \quad ->6 \quad ->14 \quad ->767 \quad ->263 \quad ->41 \quad ->60 \quad ->507 \quad ->126 \quad ->763 \quad ->262 \quad ->778 \quad ->267 \quad ->133 \quad ->875 \quad ->755 \quad
                                                                                                                                     ->876 ->880 ->552 ->
                                                 638 \ ->274 \ ->770 \ ->269 \ ->502 \ ->510 \ ->503 \ ->506 \ ->271 \ ->632 \ ->758 \ ->780 \ ->877 \ ->629 \ ->259 \ ->45 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \ ->878 \
                                                                                                                                     ->261 ->9 ->760 ->626 ->
                                                   649 \ ->754 \ ->505 \ ->535 \ ->253 \ ->0 \ ->264 \ ->3 \ ->752 \ ->5 \ ->750 \ ->751 \ ->258 \ ->15 \ ->1 \ ->252 \ ->251 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->251 \ ->252 \ ->252 \ ->251 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \ ->252 \
                                                                                                                ->250 ->500 ->501 ->
218 4 ->
219 Time: 25.9395619044080377
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4 Iteration

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1 Length: 5659
    2
     ->359 ->915 ->846 ->476 ->
      4\ 417\ ->421\ ->872\ ->120\ ->929\ ->339\ ->452\ ->225\ ->291\ ->647\ ->217\ ->464\ ->432\ ->185\ ->75\ ->51
                                                             ->976 ->218 ->124 ->180 ->
      5 54 ->243 ->994 ->325 ->282 ->689 ->254 ->738 ->366 ->166 ->161 ->711 ->593 ->89 ->717 ->899
                                                                   ->302 ->534 ->855 ->938 ->
                    ->809 ->25 ->736 ->676 ->
                    387 \; -> 948 \; -> 700 \; -> 260 \; -> 389 \; -> 989 \; -> 920 \; -> 223 \; -> 435 \; -> 437 \; -> 408 \; -> 457 \; -> 412 \; -> 658 \; -> 913 \; -> 437 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 408 \; -> 4
                                                                    ->162 ->353 ->816 ->540 ->346 ->
                    ->708 ->344 ->44 ->129 ->614 ->
                  117 \; -> 438 \; -> 607 \; -> 329 \; -> 665 \; -> 152 \; -> 735 \; -> 782 \; -> 473 \; -> 581 \; -> 599 \; -> 481 \; -> 202 \; -> 943 \; -> 349 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 10000 \; -> 1000 \; -> 10000 \; -> 1000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 100
                                                                ->267 ->489 ->264 ->562 ->471 ->
                    632 \; -> 621 \; -> 431 \; -> 497 \; -> 115 \; -> 0 \; -> 73 \; -> 840 \; -> 420 \; -> 69 \; -> 157 \; -> 6 \; -> 281 \; -> 555 \; -> 898 \; -> 549 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -
                                                                     ->817 ->794 ->884 ->999 ->
                    860 \ -{>}245 \ -{>}894 \ -{>}712 \ -{>}591 \ -{>}703 \ -{>}360 \ -{>}780 \ -{>}767 \ -{>}153 \ -{>}781 \ -{>}428 \ -{>}459 \ -{>}122 \ -{>}173 \ -{>}600 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}10000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}1000 \ -{>}10
                                                                 ->951 ->227 ->753 ->221 ->692 ->
                    142 \ ->272 \ ->8 \ ->998 \ ->959 \ ->460 \ ->554 \ ->836 \ ->983 \ ->618 \ ->326 \ ->246 \ ->198 \ ->634 \ ->887 \ ->262 \ ->262 \ ->246 \ ->198 \ ->634 \ ->887 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ ->262 \ 
                                                                   ->914 ->289 ->396 ->132 ->
13 \ 199 \ -> 556 \ -> 657 \ -> 502 \ -> 610 \ -> 671 \ -> 337 \ -> 258 \ -> 615 \ -> 158 \ -> 970 \ -> 24 \ -> 182 \ -> 678 \ -> 511 \ -> 328 \ -> 678 \ -> 110 \ -> 100 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ 
                                                                          ->533 ->490 ->695 ->373 ->
14 \ 597 \ ->59 \ ->320 \ ->829 \ ->411 \ ->509 \ ->979 \ ->219 \ ->295 \ ->485 \ ->771 \ ->654 \ ->636 \ ->88 \ ->492 \ ->602
                                           ->589 ->500 ->187 ->340 ->
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15 \quad 266 \quad -> 82 \quad -> 100 \quad -> 945 \quad -> 759 \quad -> 971 \quad -> 826 \quad -> 830 \quad -> 41 \quad -> 249 \quad -> 936 \quad -> 922 \quad -> 877 \quad -> 17 \quad -> 441 \quad -> 35 \quad -> 100 \quad -> 
                                                                       ->10 ->477 ->150 ->280 ->
16\ 558\ -> 322\ -> 637\ -> 222\ -> 778\ -> 910\ -> 352\ -> 135\ -> 680\ -> 341\ -> 777\ -> 729\ -> 60\ -> 950\ -> 196\ -> 463
                                                                                        ->317 ->427 ->235 ->644 ->
                          ->145 ->789 ->171 ->292 ->
                          309 \; -> 631 \; -> 486 \; -> 236 \; -> 84 \; -> 912 \; -> 766 \; -> 978 \; -> 573 \; -> 677 \; -> 681 \; -> 209 \; -> 744 \; -> 40 \; -> 193 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123 \; -> 123
                                                                                ->583 ->369 ->832 ->174 ->
                          799 \ ->\! 46 \ ->\! 83 \ ->\! 574 \ ->\! 824 \ ->\! 315 \ ->\! 116 \ ->\! 660 \ ->\! 564 \ ->\! 167 \ ->\! 307 \ ->\! 313 \ ->\! 103 \ ->\! 433 \ ->\! 867 \ ->\! 61
                                                                              ->586 ->806 ->363 ->284 ->
                         204 -> 93 -> 140 -> 775 -> 685 -> 942 -> 375 -> 550 -> 523 -> 847 -> 954 -> 176 -> 160 -> 953 -> 125 -> 504 -> 176 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 1
                                                                                   ->393 ->105 ->673 ->622 ->
                          469 \; -> 345 \; -> 585 \; -> 495 \; -> 807 \; -> 114 \; -> 119 \; -> 294 \; -> 572 \; -> 487 \; -> 907 \; -> 733 \; -> 95 \; -> 321 \; -> 189 \; -> 624 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 189 \; -> 18
                                                                                     ->896 ->895 ->358 ->34 ->
                         740 \ ->\!852 \ ->\!802 \ ->\!400 \ ->\!314 \ ->\!211 \ ->\!172 \ ->\!968 \ ->\!955 \ ->\!770 \ ->\!392 \ ->\!967 \ ->\!828 \ ->\!287 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\!100 \ ->\hspace1000 \ 
                                                                           ->761 ->141 ->465 ->958 ->897 ->
                          888 \ -> 566 \ -> 361 \ -> 80 \ -> 165 \ -> 21 \ -> 587 \ -> 548 \ -> 605 \ -> 659 \ -> 808 \ -> 739 \ -> 964 \ -> 719 \ -> 841 \ -> 311
                                                                                 ->752 ->571 ->625 ->969 ->
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                                                                           ->797 ->728 ->575 ->91 ->
25 \ 918 \ ->923 \ ->306 \ ->584 \ ->374 \ ->908 \ ->937 \ ->748 \ ->300 \ ->447 \ ->444 \ ->144 \ ->419 \ ->251 \ ->259 \ ->20
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26\ 110\ ->862\ ->516\ ->368\ ->842\ ->274\ ->530\ ->293\ ->85\ ->376\ ->449\ ->763\ ->949\ ->397\ ->643\ ->755
                                                                                     ->751 ->820 ->783 ->595 ->
27 \ 532 \ ->790 \ ->290 \ ->904 \ ->220 \ ->127 \ ->206 \ ->462 \ ->714 \ ->800 \ ->342 \ ->704 \ ->569 \ ->112 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ ->917 \ -
                                                                           ->445 ->963 ->687 ->347 ->906 ->
                          933 \ ->\! 200 \ ->\! 522 \ ->\! 118 \ ->\! 310 \ ->\! 94 \ ->\! 333 \ ->\! 406 \ ->\! 921 \ ->\! 960 \ ->\! 995 \ ->\! 757 \ ->\! 939 \ ->\! 143 \ ->\! 401 \ ->\! 508
                                                                                      ->693 ->475 ->443 ->512 ->
                         263 \ ->\!804 \ ->\!686 \ ->\!382 \ ->\!524 \ ->\!398 \ ->\!318 \ ->\!372 \ ->\!541 \ ->\!442 \ ->\!107 \ ->\!214 \ ->\!706 \ ->\!407 \ ->\!869
                                                                                ->170 ->623 ->467 ->183 ->616 ->
                         612 \; ->\! 812 \; ->\! 984 \; ->\! 332 \; ->\! 716 \; ->\! 335 \; ->\! 760 \; ->\! 190 \; ->\! 9 \; ->\! 996 \; ->\! 849 \; ->\! 106 \; ->\! 885 \; ->\! 874 \; ->\! 285 \; ->\! 911
                                                                           ->825 ->134 ->255 ->43 ->
                         14 \ -> 709 \ -> 792 \ -> 601 \ -> 155 \ -> 526 \ -> 941 \ -> 870 \ -> 821 \ -> 164 \ -> 28 \ -> 886 \ -> 230 \ -> 866 \ -> 154 \ -> 30
                                                                           ->81 ->656 ->505 ->875 ->
                          70 \ -> 316 \ -> 410 \ -> 592 \ -> 529 \ -> 537 \ -> 175 \ -> 834 \ -> 878 \ -> 458 \ -> 364 \ -> 520 \ -> 446 \ -> 304 \ -> 63 \ -> 927 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                              ->925 ->466 ->853 ->648 ->
                            426 \ -> 414 \ -> 109 \ -> 737 \ -> 663 \ -> 883 \ -> 257 \ -> 609 \ -> 619 \ -> 27 \ -> 542 \ -> 626 \ -> 159 \ -> 23 \ -> 765 \ -> 646 \ -> 159 \ -> 23 \ -> 765 \ -> 646 \ -> 159 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 
                                                                              ->365 ->696 ->186 ->104 ->
34 \quad 11 \quad -> 384 \quad -> 664 \quad -> 461 \quad -> 439 \quad -> 579 \quad -> 130 \quad -> 371 \quad -> 837 \quad -> 596 \quad -> 405 \quad -> 608 \quad -> 108 \quad -> 850 \quad -> 111 \quad -> 902 \quad -> 111 \quad 
                                                                                   ->425 ->474 ->319 ->7 ->
                         434 \ ->\! 268 \ ->\! 448 \ ->\! 334 \ ->\! 745 \ ->\! 205 \ ->\! 864 \ ->\! 754 \ ->\! 725 \ ->\! 296 \ ->\! 940 \ ->\! 518 \ ->\! 515 \ ->\! 86 \ ->\! 684 \ ->\! 848 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \ ->\! 860 \
                                                                                          ->698 ->546 ->980 ->796 ->
                         565 \ -> 991 \ -> 256 \ -> 338 \ -> 181 \ -> 823 \ -> 377 \ -> 403 \ -> 750 \ -> 928 \ -> 418 \ -> 74 \ -> 882 \ -> 479 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 879 \ -> 87
                                                                              ->667 ->378 ->944 ->805 ->
                          773 \ -> 726 \ -> 839 \ -> 961 \ -> 715 \ -> 386 \ -> 470 \ -> 670 \ -> 721 \ -> 355 \ -> 18 \ -> 283 \ -> 514 \ -> 52 \ -> 357 \ -> 604
                                                                           ->424 ->539 ->354 ->831 ->
                            901 \ -> 356 \ -> 547 \ -> 327 \ -> 727 \ -> 560 \ -> 652 \ -> 974 \ -> 588 \ -> 67 \ -> 394 \ -> 881 \ -> 234 \ -> 58 \ -> 856 \ -> 78
                                                                              ->651 ->484 ->957 ->66 ->
                          286 \ -> 863 \ -> 399 \ -> 498 \ -> 4 \ -> 226 \ -> 348 \ -> 96 \ -> 743 \ -> 578 \ -> 981 \ -> 865 \ -> 510 \ -> 232 \ -> 962 \ -> 212
                                                                       ->250 ->422 ->707 ->640 ->
                         756 \ -> 784 \ -> 379 \ -> 288 \ -> 661 \ -> 65 \ -> 194 \ -> 871 \ -> 128 \ -> 617 \ -> 730 \ -> 241 \ -> 454 \ -> 603 \ -> 818 \ -> 600 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1
                                                                                      ->598 ->147 ->675 ->931 ->
                         876 \ -> 758 \ -> 620 \ -> 22 \ -> 26 \ -> 668 \ -> 909 \ -> 854 \ -> 772 \ -> 137 \ -> 993 \ -> 683 \ -> 787 \ -> 13 \ -> 430 \ -> 861 \ -> 787 \ -> 13 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -> 10 \ -
                                                                           ->36 ->451 ->478 ->580 ->
                          409 \; -> 303 \; -> 810 \; -> 507 \; -> 195 \; -> 299 \; -> 697 \; -> 628 \; -> 531 \; -> 893 \; -> 423 \; -> 563 \; -> 934 \; -> 557 \; -> 146 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 1
                                                                                 ->301 ->845 ->786 ->343 ->79 ->
                          731 \ -> 710 \ -> 699 \ -> 3 \ -> 92 \ -> 924 \ -> 240 \ -> 705 \ -> 559 \ -> 694 \ -> 702 \ -> 276 \ -> 536 \ -> 582 \ -> 297 \ -> 545 \ -> 545 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 694 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 \ -> 702 
                                                                           ->37 ->53 ->801 ->179 ->
                         229 \ -> 649 \ -> 184 \ -> 803 \ -> 247 \ -> 468 \ -> 237 \ -> 192 \ -> 49 \ -> 779 \ -> 270 \ -> 762 \ -> 822 \ -> 732 \ -> 838 \ -> 90
                                                                           ->639 ->972 ->55 ->990 ->
                          450 \; -> 956 \; -> 385 \; -> 734 \; -> 72 \; -> 513 \; -> 98 \; -> 77 \; -> 177 \; -> 496 \; -> 662 \; -> 56 \; -> 629 \; -> 798 \; -> 570 \; -> 688 \; -> 700 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 10000 \; -> 10000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 10000 \; -> 10
                                                                              ->590 ->635 ->926 ->239 ->
                         691 -> 742 -> 32 -> 653 -> 544 -> 19 -> 42 -> 905 -> 16 -> 29 -> 538 -> 985 -> 982 -> 903 -> 188 -> 819
                                                                            ->126 ->488 ->395 ->215 ->
                         567 \; -> 331 \; -> 136 \; -> 503 \; -> 231 \; -> 101 \; -> 45 \; -> 39 \; -> 121 \; -> 627 \; -> 650 \; -> 416 \; -> 746 \; -> 76 \; -> 483 \; -> 543 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 
                                                                                 ->519 ->224 ->298 ->64 ->
48 \ 12 \ -> 606 \ -> 690 \ -> 930 \ -> 613 \ -> 216 \ -> 242 \ -> 674 \ -> 501 \ -> 71 \ -> 527 \ -> 858 \ -> 279 \ -> 169 \ -> 305 \ -> 988 \ -> 279 \ -> 169 \ -> 305 \ -> 988 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -
                                                                  ->367 ->701 ->749 ->633 ->
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49\ 388\ ->723\ ->391\ ->552\ ->641\ ->278\ ->946\ ->233\ ->814\ ->525\ ->271\ ->795\ ->630\ ->785\ ->203
                                                                            ->890 ->788 ->987 ->273 ->577 ->
50 \ 992 \ ->873 \ ->521 \ ->642 \ ->277 \ ->38 \ ->163 \ ->275 \ ->682 \ ->50 \ ->149 \ ->390 \ ->774 \ ->851 \ ->551 \ ->323 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->521 \ ->5
                                                                                        ->456 ->436 ->178 ->973 ->
                             248 \ -> 15 \ -> 889 \ -> 506 \ -> 47 \ -> 638 \ -> 493 \ -> 900 \ -> 528 \ -> 997 \ -> 791 \ -> 813 \ -> 62 \ -> 952 \ -> 455 \ -> 213
                                                                               ->947 ->269 ->655 ->919 ->
 52\ 133\ ->553\ ->139\ ->253\ ->811\ ->402\ ->891\ ->482\ ->351\ ->156\ ->113\ ->308\ ->138\ ->80\ ->679
                                                                        ->857 ->207 ->57 ->201 ->868 ->
54 Time: 105.5457831178791821
56 Length: 6072
 57
                           0 \ -> 582 \ -> 923 \ -> 713 \ -> 230 \ -> 760 \ -> 944 \ -> 805 \ -> 802 \ -> 761 \ -> 141 \ -> 465 \ -> 958 \ -> 223 \ -> 377 \ -> 881
                                                                               ->234 ->444 ->971 ->826 ->
 59 \ 830 \ ->673 \ ->327 \ ->954 \ ->429 \ ->986 \ ->332 \ ->716 \ ->897 \ ->441 \ ->28 \ ->768 \ ->392 \ ->967 \ ->367 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->704 \ ->
                                                                                          ->474 ->319 ->708 ->959 ->
                               966 \ -> 718 \ -> 226 \ -> 928 \ -> 636 \ -> 263 \ -> 453 \ -> 445 \ -> 847 \ -> 984 \ -> 180 \ -> 204 \ -> 93 \ -> 151 \ -> 643 \ -> 904 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                          ->797 ->411 ->322 ->894 ->
                             439 \ -> 227 \ -> 477 \ -> 150 \ -> 280 \ -> 467 \ -> 560 \ -> 379 \ -> 730 \ -> 241 \ -> 933 \ -> 835 \ -> 793 \ -> 404 \ -> 892 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                             ->736 ->438 ->329 ->665 ->152 ->
 62\ 154\ ->960\ ->832\ ->863\ ->487\ ->907\ ->733\ ->973\ ->250\ ->999\ ->860\ ->245\ ->616\ ->275\ ->352
                                                                                      ->763 ->312 ->747 ->836 ->983 ->
                           460 \ -> 188 \ -> 251 \ -> 935 \ -> 205 \ -> 105 \ -> 906 \ -> 972 \ -> 55 \ -> 917 \ -> 476 \ -> 417 \ -> 489 \ -> 887 \ -> 262 \ -> 464 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                          ->84 ->912 ->378 ->561 ->
 64 \quad 721 \quad ->315 \quad ->116 \quad ->420 \quad ->627 \quad ->427 \quad ->752 \quad ->571 \quad ->769 \quad ->702 \quad ->668 \quad ->479 \quad ->875 \quad ->996 \quad ->849 \quad ->875 \quad ->996 \quad -
                                                                                    ->977 ->145 ->265 ->148 ->466 ->
                           184 \ ->\! 272 \ ->\! 706 \ ->\! 990 \ ->\! 927 \ ->\! 220 \ ->\! 799 \ ->\! 866 \ ->\! 916 \ ->\! 197 \ ->\! 359 \ ->\! 496 \ ->\! 662 \ ->\! 911 \ ->\! 289 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 
                                                                               ->925 ->132 ->864 ->290 ->397 ->
 66\ \ 138\ \ ->186\ \ ->893\ \ ->423\ \ ->974\ \ ->338\ \ ->978\ \ ->407\ \ ->699\ \ ->461\ \ ->137\ \ ->437\ \ ->408\ \ ->457\ \ ->412
                                                                               ->422 ->306 ->475 ->937 ->753 ->
                           130 \ -{>}371 \ -{>}837 \ -{>}596 \ -{>}219 \ -{>}295 \ -{>}485 \ -{>}405 \ -{>}450 \ -{>}956 \ -{>}617 \ -{>}819 \ -{>}236 \ -{>}898 \ -{>}801
                                                                                        ->901 ->448 ->434 ->413 ->576 ->
                             908 -> 401 -> 167 -> 307 -> 855 -> 471 -> 632 -> 123 -> 498 -> 914 -> 807 -> 217 -> 567 -> 185 -> 698
                                                                                   ->463 ->317 ->255 ->711 ->727 ->
                           418 \ -> 656 \ -> 124 \ -> 684 \ -> 337 \ -> 243 \ -> 994 \ -> 325 \ -> 670 \ -> 484 \ -> 957 \ -> 66 \ -> 490 \ -> 491 \ -> 783 \ -> 654 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                           ->335 ->389 ->161 ->889 ->
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                                                                                   ->41 ->369 ->206 ->462 ->
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                                                                                          ->873 ->915 ->846 ->282 ->
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 83\ \ 402\ ->599\ ->523\ ->717\ ->324\ ->672\ ->237\ ->192\ ->253\ ->174\ ->299\ ->697\ ->421\ ->872\ ->637\ ->637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->2637\ ->192\ ->192\ ->2637\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->192\ ->1
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                                                                                    ->472 ->208 ->538 ->247 ->
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->870 ->821 ->164 ->278 ->
           86\ 946\ ->639\ ->346\ ->195\ ->209\ ->270\ ->985\ ->950\ ->827\ ->694\ ->111\ ->330\ ->667\ ->712\ ->218
                                                                                                       ->858 ->279 ->719 ->254 ->293 ->
                                          85 \ -> 918 \ -> 806 \ -> 583 \ -> 153 \ -> 200 \ -> 165 \ -> 586 \ -> 547 \ -> 384 \ -> 749 \ -> 633 \ -> 443 \ -> 17 \ -> 398 \ -> 726 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                     ->394 ->591 ->703 ->951 ->
                                          331 \ -> 555 \ -> 678 \ -> 177 \ -> 720 \ -> 744 \ -> 249 \ -> 936 \ -> 297 \ -> 787 \ -> 804 \ -> 686 \ -> 650 \ -> 861 \ -> 36 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 144 \ -> 14
                                                                                                              ->113 ->976 ->764 ->689 ->
                                          302 \; ->\! 42 \; ->\! 905 \; ->\! 941 \; ->\! 305 \; ->\! 585 \; ->\! 198 \; ->\! 641 \; ->\! 742 \; ->\! 565 \; ->\! 991 \; ->\! 848 \; ->\! 89 \; ->\! 700 \; ->\! 767 \; ->\! 810 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; ->\! 700 \; 
                                                                                                         ->172 ->791 ->886 ->73 ->
           90 \quad 550 \quad ->210 \quad ->589 \quad ->339 \quad ->930 \quad ->838 \quad ->613 \quad ->770 \quad ->691 \quad ->426 \quad ->414 \quad ->611 \quad ->156 \quad ->277 \quad ->357 \quad -
                                                                                                 ->604 ->597 ->989 ->920 ->60 ->
         91 \quad 266 \quad ->82 \quad ->452 \quad ->225 \quad ->291 \quad ->647 \quad ->536 \quad ->454 \quad ->765 \quad ->112 \quad ->899 \quad ->829 \quad ->688 \quad ->91 \quad ->430 \quad ->755 \quad ->112 \quad ->899 \quad ->829 \quad ->8
                                                                                                            ->365 ->696 ->584 ->360 ->
           92\ 14\ -> 393\ -> 120\ -> 929\ -> 94\ -> 739\ -> 964\ -> 995\ -> 776\ -> 755\ -> 751\ -> 178\ -> 283\ -> 88\ -> 813\ -> 310
                                                                                                   ->320 ->671 ->447 ->789 ->
           93 \ 71 \ -> 409 \ -> 314 \ -> 635 \ -> 162 \ -> 629 \ -> 211 \ -> 403 \ -> 685 \ -> 735 \ -> 782 \ -> 473 \ -> 581 \ -> 334 \ -> 106 \ -> 885 \ -> 782 \ -> 473 \ -> 106 \ -> 885 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ -> 106 \ 
                                                                                                           ->874 ->19 ->652 ->187 ->
                                          900 \;\; -> 559 \;\; -> 784 \;\; -> 548 \;\; -> 133 \;\; -> 406 \;\; -> 921 \;\; -> 446 \;\; -> 385 \;\; -> 143 \;\; -> 142 \;\; -> 794 \;\; -> 645 \;\; -> 433 \;\; -> 619 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 \;\; -> 120 
                                                                                                   ->541 ->127 ->640 ->601 ->734 ->
                                        308 \ -> 50 \ -> 149 \ -> 65 \ -> 865 \ -> 69 \ -> 857 \ -> 693 \ -> 891 \ -> 380 \ -> 692 \ -> 100 \ -> 87 \ -> 351 \ -> 664 \ -> 480 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \ -> 891 \
                                                                                               ->785 ->575 ->22 ->259 ->
                                        707 \; ->\! 81 \; ->\! 701 \; ->\! 926 \; ->\! 988 \; ->\! 871 \; ->\! 822 \; ->\! 732 \; ->\! 196 \; ->\! 540 \; ->\! 83 \; ->\! 574 \; ->\! 942 \; ->\! 207 \; ->\! 743 \; ->\! 626 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; 
                                                                                                           ->169 ->469 ->376 ->74 ->
           97\ 811\ ->869\ ->724\ ->796\ ->606\ ->786\ ->709\ ->328\ ->663\ ->883\ ->257\ ->609\ ->53\ ->242\ ->90\ ->129
                                                                                                   ->614 ->456 ->64 ->284 ->
           98 \quad 61 \quad ->76 \quad ->573 \quad ->518 \quad ->47 \quad ->399 \quad ->754 \quad ->758 \quad ->499 \quad ->649 \quad ->372 \quad ->86 \quad ->781 \quad ->235 \quad ->288 \quad ->298 \quad ->298
                                                                                                           ->598 ->722 ->126 ->851 ->
                                        410 \ -> 592 \ -> 191 \ -> 531 \ -> 625 \ -> 746 \ -> 679 \ -> 553 \ -> 158 \ -> 432 \ -> 515 \ -> 542 \ -> 879 \ -> 815 \ -> 938 \ -> 11
                                                                                                              ->386 ->115 ->181 ->823 ->
 100 \ 95 \ ->831 \ ->508 \ ->182 \ ->788 \ ->117 \ ->228 \ ->68 \ ->723 \ ->146 \ ->675 \ ->51 \ ->612 \ ->590 \ ->570 \ ->825 \ ->510 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->500 \ ->5
                                                                                                   ->451 ->642 ->949 ->79 ->
                                        80 \ ->\! 546 \ ->\! 258 \ ->\! 551 \ ->\! 552 \ ->\! 620 \ ->\! 54 \ ->\! 939 \ ->\! 32 \ ->\! 507 \ ->\! 535 \ ->\! 20 \ ->\! 48 \ ->\! 603 \ ->\! 239 \ ->\! 21 \ ->\! 49
                                                                                                           ->779 ->147 ->173 ->
                                        98 \ -> 77 \ -> 965 \ -> 70 \ -> 593 \ -> 12 \ -> 139 \ -> 795 \ -> 630 \ -> 24 \ -> 232 \ -> 416 \ -> 580 \ -> 103 \ -> 27 \ -> 532
                                                                                                   ->814 ->525 ->605 ->9 ->
103 \ \ 213 \ \ ->517 \ \ ->216 \ \ ->483 \ \ ->119 \ \ ->18 \ \ ->544 \ \ ->631 \ \ ->215 \ \ ->608 \ \ ->602 \ \ ->39 \ \ ->203 \ \ ->674 \ \ ->504 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ ->34 \ \ 
                                                                                                         ->190 ->521 ->233 ->511 ->
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                                                                                                     ->128 ->52 ->16 ->543 ->
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                                                                                                 ->524 ->526 ->10 ->
                                          562 \; ->\! 549 \; ->\! 506 \; ->\! 587 \; ->\! 2 \; ->\! 5 \; ->\! 628 \; ->\! 500 \; ->\! 505 \; ->\! 520 \; ->\! 539 \; ->\! 757 \; ->\! 502 \; ->\! 513 \; ->\! 501 \; ->\! 1
                                                                                               ->514 ->522 ->690 ->512 ->
108
 Time: 71.5437925239093602
111 Length: 6970
113 \quad 0 \quad ->282 \quad ->968 \quad ->237 \quad ->602 \quad ->212 \quad ->727 \quad ->686 \quad ->135 \quad ->972 \quad ->319 \quad ->482 \quad ->226 \quad ->746 \quad ->479 \quad ->745 \quad ->
                                                                                                       ->205 ->864 ->739 ->457 ->
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                                                                                                              ->998 ->712 ->975 ->383 ->
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                                                                                                           ->337 ->243 ->994 ->651 ->244 ->
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                                        ->919 ->459 ->970 ->989 ->
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                                                                                                   ->207 ->743 ->498 ->897 ->441 ->
 119\ 443\ ->798\ ->859\ ->225\ ->981\ ->193\ ->449\ ->477\ ->958\ ->223\ ->377\ ->194\ ->496\ ->662\ ->748
                                                                                                 ->963 ->481 ->202 ->943 ->241 ->
 120 \ 933 \ ->725 \ ->348 \ ->460 \ ->455 \ ->711 \ ->471 \ ->385 \ ->675 \ ->484 \ ->710 \ ->229 \ ->361 \ ->403 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ ->685 \ 
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                                                                                 ->247 ->468 ->618 ->940 ->429 ->
```

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                                                                                                ->184 ->918 ->607 ->641 ->742 ->
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                                                                                                      ->854 ->733 ->976 ->218 ->433 ->
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                                                                                                        ->977 ->167 ->642 ->374 ->688 ->
                                         637 \ -> 222 \ -> 596 \ -> 612 \ -> 376 \ -> 666 \ -> 632 \ -> 123 \ -> 173 \ -> 734 \ -> 475 \ -> 937 \ -> 416 \ -> 494 \ -> 922 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 1
                                                                                                    ->228 ->419 ->155 ->444 ->971 ->
                                       826 \ -> 605 \ -> 928 \ -> 418 \ -> 980 \ -> 401 \ -> 238 \ -> 413 \ -> 148 \ -> 203 \ -> 890 \ -> 99 \ -> 73 \ -> 840 \ -> 162 \ -> 353 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162 \ -> 162
                                                                                                ->640 ->447 ->678 ->177 ->
                                         670 \ -> 694 \ -> 111 \ -> 737 \ -> 92 \ -> 492 \ -> 509 \ -> 245 \ -> 894 \ -> 594 \ -> 488 \ -> 691 \ -> 426 \ -> 924 \ -> 409 \ -> 587 \ -> 894 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
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                                                                                                ->144 ->984 ->180 ->889 ->330 ->
                                         667 \; -> 905 \; -> 941 \; -> 954 \; -> 938 \; -> 151 \; -> 465 \; -> 719 \; -> 97 \; -> 378 \; -> 944 \; -> 157 \; -> 659 \; -> 83 \; -> 473 \; -> 581 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100
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                                                                                                ->863 ->196 ->950 ->235 ->487 ->
132 \ 735 \ -> 58 \ -> 856 \ -> 679 \ -> 847 \ -> 916 \ -> 217 \ -> 931 \ -> 876 \ -> 704 \ -> 174 \ -> 299 \ -> 701 \ -> 120 \ -> 991 \ -> 638 \ -> 876 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \
                                                                                                            ->368 ->399 ->363 ->653 ->
                                       871 \ -> 633 \ -> 214 \ -> 920 \ -> 350 \ -> 170 \ -> 163 \ -> 903 \ -> 188 \ -> 974 \ -> 349 \ -> 136 \ -> 957 \ -> 857 \ -> 693 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 188 \ -> 1
                                                                                                  ->891 ->946 ->639 ->906 ->923 ->
                                       867 \ -> 101 \ -> 912 \ -> 141 \ -> 190 \ -> 613 \ -> 90 \ -> 342 \ -> 186 \ -> 452 \ -> 442 \ -> 454 \ -> 603 \ -> 333 \ -> 926 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 866 \ -> 86
                                                                                                            ->182 ->143 ->878 ->344 ->
                                         955 \ -> 436 \ -> 560 \ -> 652 \ -> 367 \ -> 327 \ -> 873 \ -> 915 \ -> 178 \ -> 149 \ -> 792 \ -> 911 \ -> 106 \ -> 885 \ -> 917 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
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                                       572 \ -> 406 \ -> 410 \ -> 375 \ -> 875 \ -> 70 \ -> 593 \ -> 624 \ -> 896 \ -> 458 \ -> 558 \ -> 112 \ -> 892 \ -> 408 \ -> 650 \ -> 322 \ -> 408 \ -> 650 \ -> 322 \ -> 408 \ -> 650 \ -> 322 \ -> 408 \ -> 650 \ -> 322 \ -> 408 \ -> 650 \ -> 322 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 65
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                                       428 \ -> 68 \ -> 988 \ -> 927 \ -> 451 \ -> 617 \ -> 819 \ -> 853 \ -> 122 \ -> 297 \ -> 545 \ -> 687 \ -> 644 \ -> 332 \ -> 183 \ -> 424 \ -> 183 \ -> 424 \ -> 183 \ -> 424 \ -> 183 \ -> 424 \ -> 183 \ -> 424 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 183 \ -> 18
                                                                                                              ->108 ->420 ->358 ->823 ->
                                       95 \ -> 597 \ -> 566 \ -> 848 \ -> 89 \ -> 583 \ -> 153 \ -> 200 \ -> 900 \ -> 884 \ -> 387 \ -> 430 \ -> 296 \ -> 201 \ -> 306 \ -> 584 \ -> 387 \ -> 430 \ -> 296 \ -> 201 \ -> 306 \ -> 584 \ -> 387 \ -> 430 \ -> 296 \ -> 201 \ -> 306 \ -> 584 \ -> 387 \ -> 430 \ -> 296 \ -> 201 \ -> 306 \ -> 584 \ -> 387 \ -> 430 \ -> 387 \ -> 430 \ -> 387 \ -> 430 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387 \ -> 387
                                                                                                      ->168 ->610 ->586 ->362 ->
                                         ->423 ->114 ->119 ->985 ->
141\ \ 357\ \ ->604\ \ ->643\ \ ->317\ \ ->81\ \ ->371\ \ ->648\ \ ->646\ \ ->365\ \ ->696\ \ ->690\ \ ->400\ \ ->845\ \ ->947\ \ ->146\ \ ->301\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->301\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->947\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\ \ ->146\
                                                                                                              ->630 ->846 ->855 ->809 ->
142\ 834\ -> 313\ -> 851\ -> 668\ -> 964\ -> 339\ -> 380\ -> 682\ -> 31\ -> 107\ -> 91\ -> 72\ -> 309\ -> 179\ -> 176\ -> 366
                                                                                                            ->274 ->35 ->877 ->591 ->
                                       836 \ -> 850 \ -> 158 \ -> 396 \ -> 132 \ -> 85 \ -> 130 \ -> 598 \ -> 945 \ -> 543 \ -> 611 \ -> 156 \ -> 369 \ -> 832 \ -> 595 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 830 \ -> 83
                                                                                                                ->673 ->965 ->55 ->434 ->
144\ 113\ ->\!749\ ->\!600\ ->\!44\ ->\!390\ ->\!555\ ->\!898\ ->\!801\ ->\!585\ ->\!599\ ->\!345\ ->\!52\ ->\!582\ ->\!626\ ->\!169\ ->\!93
                                                                                                ->64 ->569 ->84 ->104 ->
                                         872 \ -> 329 \ -> 98 \ -> 902 \ -> 62 \ -> 849 \ -> 813 \ -> 310 \ -> 674 \ -> 592 \ -> 74 \ -> 811 \ -> 869 \ -> 654 \ -> 86 \ -> 576 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \ -> 869 \
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146 \ 574 \ -> 664 \ -> 628 \ -> 49 \ -> 75 \ -> 51 \ -> 731 \ -> 45 \ -> 575 \ -> 277 \ -> 676 \ -> 833 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 334 \ -> 997 \ -> 822 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 96 \ -> 
                                                                                                ->564 ->381 ->529 ->324 ->
->78 ->351 ->554 ->952 ->
                                       373 \ -> 559 \ -> 414 \ -> 816 \ -> 570 \ -> 820 \ -> 625 \ -> 824 \ -> 126 \ -> 606 \ -> 315 \ -> 116 \ -> 806 \ -> 883 \ -> 318
                                                                                                  ->372 ->77 ->352 ->393 ->870 ->
                                       821 \ ->772 \ ->294 \ ->59 \ ->579 \ ->874 \ ->19 \ ->790 \ ->71 \ ->818 \ ->39 \ ->115 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->844 \ ->356 \ ->547 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->561 \ ->
                                                                                                          ->384 ->835 ->61 ->340 ->
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                                                                                                  ->565 ->343 ->320 ->128 ->
                                       293 \; ->\! 841 \; ->\! 843 \; ->\! 242 \; ->\! 316 \; ->\! 341 \; ->\! 386 \; ->\! 812 \; ->\! 355 \; ->\! 302 \; ->\! 56 \; ->\! 364 \; ->\! 520 \; ->\! 82 \; ->\! 22 \; ->\! 793 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; -> 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100
                                                                                                ->879 ->69 ->747 ->280 ->
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153 \ 784 \ -> 548 \ -> 305 \ -> 556 \ -> 619 \ -> 312 \ -> 138 \ -> 63 \ -> 783 \ -> 779 \ -> 808 \ -> 231 \ -> 307 \ -> 539 \ -> 837 \ -> 865 \ -> 808 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \
                                                                                                              ->810 ->276 ->527 ->28 ->
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                                                                                                          ->773 ->508 ->546 ->284 ->
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                                                                                  ->532 ->814 ->314 ->13 ->
```

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156 \ \ 275 \ \ -> 66 \ \ -> 895 \ \ -> 53 \ \ -> 767 \ \ -> 803 \ \ -> 42 \ \ -> 580 \ \ -> 21 \ \ -> 290 \ \ -> 795 \ \ -> 40 \ \ -> 774 \ \ -> 780 \ \ -> 17 \ \ -> 336
                                                                                   ->776 ->256 ->271 ->192 ->
                                   33 \ -> 775 \ -> 283 \ -> 756 \ -> 828 \ -> 287 \ -> 292 \ -> 43 \ -> 14 \ -> 34 \ -> 268 \ -> 6 \ -> 281 \ -> 263 \ -> 763 \ -> 24 \ -> 285 \ -> 287 \ -> 285 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ -> 287 \ ->
                                                                                               ->258 ->549 ->817 ->
                                   762 \ ->272 \ ->781 \ ->788 \ ->117 \ ->270 \ ->778 \ ->267 \ ->257 \ ->261 \ ->48 \ ->80 \ ->10 \ ->259 \ ->253 \ ->397 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ ->261 \ -
                                                                                         ->523 ->787 ->578 ->265 ->
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                                                                                          ->266 ->102 ->769 ->288 ->
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                                                                                     ->759 ->758 ->764 ->4 ->
 ->751 ->785 ->534 ->
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165
166 Length: 8721
167
168 \ 4 \ -> 470 \ -> 621 \ -> 51 \ -> 976 \ -> 353 \ -> 585 \ -> 599 \ -> 481 \ -> 479 \ -> 745 \ -> 749 \ -> 222 \ -> 211 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 741 \ -> 729 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -> 720 \ -
                                                                                  ->352 ->355 ->860 ->245 ->
169 \ 539 \ -> 995 \ -> 496 \ -> 593 \ -> 288 \ -> 341 \ -> 351 \ -> 476 \ -> 558 \ -> 112 \ -> 457 \ -> 857 \ -> 616 \ -> 455 \ -> 610
                                                                                            ->586 ->205 ->229 ->238 ->591 ->
                                   984 \ -{>}366 \ -{>}987 \ -{>}724 \ -{>}109 \ -{>}612 \ -{>}998 \ -{>}959 \ -{>}192 \ -{>}556 \ -{>}620 \ -{>}721 \ -{>}173 \ -{>}734 \ -{>}852
                                                                                     ->227 ->89 ->717 ->93 ->475 ->
                                    937 \ -> 231 \ -> 101 \ -> 707 \ -> 368 \ -> 361 \ -> 685 \ -> 942 \ -> 871 \ -> 958 \ -> 321 \ -> 706 \ -> 607 \ -> 85 \ -> 715 \ -> 988 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 10
                                                                                                   ->246 ->349 ->493 ->492 ->
                                    733 \ ->\! 236 \ ->\! 208 \ ->\! 317 \ ->\! 81 \ ->\! 973 \ ->\! 248 \ ->\! 117 \ ->\! 228 \ ->\! 720 \ ->\! 328 \ ->\! 348 \ ->\! 436 \ ->\! 936 \ ->\! 370 \ ->\! 456
                                                                                                 ->811 ->869 ->604 ->597 ->
                                   566 \ -> 990 \ -> 927 \ -> 686 \ -> 94 \ -> 740 \ -> 978 \ -> 748 \ -> 606 \ -> 589 \ -> 498 \ -> 198 \ -> 331 \ -> 88 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 338 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615 \ -> 615
                                                                                     ->576 ->679 ->847 ->934 ->
                                   981 \ ->\!865 \ ->\!701 \ ->\!115 \ ->\!695 \ ->\!680 \ ->\!820 \ ->\!983 \ ->\!618 \ ->\!940 \ ->\!850 \ ->\!111 \ ->\!596 \ ->\!219 \ ->\!603
                                                                                          ->337 ->595 ->817 ->842 ->921 ->
                                   91 -> 497 -> 360 -> 743 -> 979 -> 737 -> 590 -> 87 -> 240 -> 848 -> 225 -> 726 -> 344 -> 301 -> 123 -> 956
                                                                                       ->736 ->438 ->977 ->491 ->
                                   592 \ ->\! 74 \ ->\! 495 \ ->\! 997 \ ->\! 477 \ ->\! 861 \ ->\! 970 \ ->\! 700 \ ->\! 989 \ ->\! 296 \ ->\! 201 \ ->\! 369 \ ->\! 340 \ ->\! 614 \ ->\! 359 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \ ->\! 343 \
                                                                                                   ->313 ->624 ->831 ->488 ->
                                   329 \ -> 562 \ -> 856 \ -> 516 \ -> 972 \ -> 691 \ -> 962 \ -> 335 \ -> 804 \ -> 573 \ -> 677 \ -> 485 \ -> 939 \ -> 739 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 176 \ -> 1
                                                                                         ->122 ->480 ->97 ->243 ->994 ->
 178 851 -> 565 -> 617 -> 730 -> 588 -> 788 -> 233 -> 993 -> 874 -> 200 -> 991 -> 967 -> 999 -> 552 -> 966 -> 967 -> 967 -> 967 -> 967 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968 -> 968
                                                                                     ->182 ->316 ->339 ->863 ->623 ->
                                   217 \; ->\! 464 \; ->\! 332 \; ->\! 183 \; ->\! 333 \; ->\! 992 \; ->\! 845 \; ->\! 712 \; ->\! 867 \; ->\! 676 \; ->\! 841 \; ->\! 483 \; ->\! 714 \; ->\! 800 \; ->\! 342 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 \; ->\! 183 
                                                                                       ->704 ->569 ->194 ->209 ->564 ->
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181 \quad 155 \quad ->710 \quad ->478 \quad ->953 \quad ->577 \quad ->110 \quad ->437 \quad ->608 \quad ->602 \quad ->567 \quad ->731 \quad ->855 \quad ->708 \quad ->827 \quad ->468 \quad ->827 \quad ->468 \quad ->827 \quad 
                                                                                            ->212 ->829 ->99 ->572 ->223 ->
                                   594 \ -> 460 \ -> 813 \ -> 189 \ -> 732 \ -> 196 \ -> 304 \ -> 327 \ -> 727 \ -> 687 \ -> 347 \ -> 471 \ -> 870 \ -> 354 \ -> 210 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 196 \ -> 1
                                                                                   ->334 ->106 ->486 ->107 ->214 ->
 183\ 302\ ->742\ ->694\ ->69\ ->63\ ->945\ ->298\ ->957\ ->823\ ->362\ ->947\ ->832\ ->578\ ->692\ ->100\ ->447\ ->832\ ->578\ ->692\ ->100\ ->447\ ->832\ ->578\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->100\ ->447\ ->832\ ->692\ ->692\ ->100\ ->447\ ->692\ ->692\ ->100\ ->447\ ->692\ ->692\ ->100\ ->447\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\ ->692\
                                                                                     ->345 ->854 ->474 ->319 ->
                                   542 ->555 ->434 ->113 ->713 ->489 ->454 ->699 ->195 ->864 ->490 ->664 ->218 ->433 ->619
                                                                                   ->541 ->916 ->197 ->120 ->929 ->
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                                                                                         ->346 ->923 ->583 ->681 ->985 ->
                                   688 \ -> 536 \ -> 582 \ -> 837 \ -> 414 \ -> 693 \ -> 570 \ -> 199 \ -> 839 \ -> 961 \ -> 326 \ -> 306 \ -> 719 \ -> 716 \ -> 543 \ -> 543 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                                          ->611 ->494 ->553 ->221 ->901 ->
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                                                                                         ->171 ->446 ->605 ->928 ->
   190 \ 170 \ -> 683 \ -> 690 \ -> 431 \ -> 232 \ -> 416 \ -> 580 \ -> 951 \ -> 533 \ -> 574 \ -> 429 \ -> 270 \ -> 448 \ -> 833 \ -> 935 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 
                                                                                     ->428 ->167 ->239 ->906 ->247 ->
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                                                                                               ->645 ->584 ->53 ->226 ->
192 \ 554 \ -> 324 \ -> 174 \ -> 697 \ -> 421 \ -> 80 \ -> 515 \ -> 67 \ -> 105 \ -> 82 \ -> 960 \ -> 821 \ -> 969 \ -> 835 \ -> 789 \ -> 812
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->674 ->853 ->152 ->735 ->
->917 ->215 ->561 ->872 ->
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                                                                                                                ->794 ->157 ->418 ->98 ->77 ->
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                                                                                                            ->175 ->484 ->308 ->282 ->
                                              449 \; ->\! 549 \; ->\! 350 \; ->\! 330 \; ->\! 747 \; ->\! 996 \; ->\! 311 \; ->\! 391 \; ->\! 59 \; ->\! 34 \; ->\! 487 \; ->\! 613 \; ->\! 411 \; ->\! 910 \; ->\! 634 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; ->\! 160 \; 
                                                                                                                  ->185 ->711 ->787 ->66 ->
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  197
                                                                                                       ->834 ->783 ->118 ->158 ->
->323 ->190 ->900 ->8 ->
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  199
                                                                                                                        ->894 ->230 ->42 ->949 ->
                                            678 \ -> 899 \ -> 778 \ -> 646 \ -> 499 \ -> 809 \ -> 703 \ -> 186 \ -> 648 \ -> 666 \ -> 546 \ -> 426 \ -> 784 \ -> 795 \ -> 320 \ -> 650 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 1
                                                                                                                    ->830 ->440 ->257 ->290 ->
                                                                                    ->\!684 \ ->\!761 \ ->\!723 \ ->\!902 \ ->\!785 \ ->\!859 \ ->\!661 \ ->\!27 \ ->\!702 \ ->\!280 \ ->\!36 \ ->\!96 \ ->\!168 \ ->\!808 \ ->\!780 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!808 \ ->\!8
                                                                                                            ->291 ->897 ->441 ->163 ->
                                            372 \ ->\!50 \ ->\!641 \ ->\!530 \ ->\!660 \ ->\!909 \ ->\!886 \ ->\!73 \ ->\!657 \ ->\!669 \ ->\!557 \ ->\!161 \ ->\!528 \ ->\!450 \ ->\!537 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177 \ ->\!177
                                                                                                       ->769 ->415 ->76 ->639 ->
                                              631 \ -> 793 \ -> 404 \ -> 907 \ -> 579 \ -> 505 \ -> 242 \ -> 90 \ -> 21 \ -> 289 \ -> 131 \ -> 709 \ -> 38 \ -> 532 \ -> 310 \ -> 459 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 
203
                                                                                                                ->297 ->398 ->810 ->47 ->
                                            43 \ -> 911 \ -> 782 \ -> 147 \ -> 79 \ -> 224 \ -> 148 \ -> 843 \ -> 883 \ -> 40 \ -> 816 \ -> 256 \ -> 286 \ -> 396 \ -> 538 \ -> 271 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 
                                                                                                            ->762 ->164 ->765 ->563 ->
205 \ 71 \ ->527 \ ->571 \ ->777 \ ->523 \ ->15 \ ->75 \ ->380 \ ->663 \ ->506 \ ->423 \ ->653 \ ->896 \ ->534 \ ->277 \ ->432 \ ->653 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->506 \ ->5
                                                                                                                  ->509 ->452 ->303 ->262 ->
                                              801 \ -> 799 \ -> 178 \ -> 410 \ -> 58 \ -> 33 \ -> 39 \ -> 44 \ -> 32 \ -> 154 \ -> 913 \ -> 162 \ -> 898 \ -> 652 \ -> 919 \ -> 403 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ 
                                                                                                                ->102 ->659 ->285 ->912 ->
                                              696 \ -> 640 \ -> 654 \ -> 48 \ -> 261 \ -> 775 \ -> 145 \ -> 265 \ -> 413 \ -> 269 \ -> 519 \ -> 649 \ -> 763 \ -> 656 \ -> 292 \ -> 49
                                                                                                         ->895 ->45 ->522 ->358 ->
                                              395 \ -> 771 \ -> 393 \ -> 650 \ -> 879 \ -> 153 \ -> 520 \ -> 508 \ -> 507 \ -> 647 \ -> 632 \ -> 815 \ -> 774 \ -> 643 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 137 \ -> 1
208
                                                                                                                    ->514 ->950 ->884 ->511 ->184 ->
                                            798 \ -> 134 \ -> 165 \ -> 405 \ -> 141 \ -> 37 \ -> 407 \ -> 463 \ -> 52 \ -> 908 \ -> 25 \ -> 114 \ -> 19 \ -> 915 \ -> 671 \ -> 401
209
                                                                                                            ->274 ->267 ->202 ->767 ->
                                            263 \ ->\!55 \ ->\!430 \ ->\!914 \ ->\!425 \ ->\!389 \ ->\!560 \ ->\!887 \ ->\!540 \ ->\!932 \ ->\!408 \ ->\!275 \ ->\!768 \ ->\!807 \ ->\!13 \ ->\!629 \ ->\!807 \ ->\!13 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!10 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ ->\!807 \ -
                                                                                                                  ->293 ->406 ->264 ->213 ->
                                              260 \ -> 779 \ -> 386 \ -> 35 \ -> 10 \ -> 146 \ -> 665 \ -> 890 \ -> 255 \ -> 258 \ -> 129 \ -> 547 \ -> 531 \ -> 893 \ -> 299 \ -> 626 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                            ->796 ->143 ->773 ->658 ->
                                            920 \ ->\!60 \ ->\!266 \ ->\!889 \ ->\!378 \ ->\!400 \ ->\!283 \ ->\!383 \ ->\!29 \ ->\!633 \ ->\!790 \ ->\!888 \ ->\!758 \ ->\!922 \ ->\!287 \ ->\!272
                                                                                                                ->140 ->70 ->31 ->11 ->
                                            103 \; -> 392 \; -> 760 \; -> 136 \; -> 169 \; -> 388 \; -> 402 \; -> 30 \; -> 394 \; -> 397 \; -> 390 \; -> 127 \; -> 138 \; -> 668 \; -> 130 \; -> 642 \; -> 130 \; -> 127 \; -> 138 \; -> 127 \; -> 128 \; -> 127 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 128 \; -> 12
                                                                                                                        ->638 ->14 ->510 ->382 ->
                                                276 \ ->\! 444 \ ->\! 387 \ ->\! 385 \ ->\! 764 \ ->\! 644 \ ->\! 26 \ ->\! 880 \ ->\! 375 \ ->\! 128 \ ->\! 517 \ ->\! 756 \ ->\! 755 \ ->\! 376 \ ->\! 766 \ ->\! 630 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \ ->\! 766 \
                                                                                                                        ->24 ->651 ->636 ->836 ->
                                            770 \;\; ->\!635 \;\; ->\!753 \;\; ->\!379 \;\; ->\!876 \;\; ->\!637 \;\; ->\!132 \;\; ->\!512 \;\; ->\!133 \;\; ->\!503 \;\; ->\!757 \;\; ->\!751 \;\; ->\!524 \;\; ->\!278 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 \;\; ->\!377 
                                                                                                                      ->881 ->126 ->885 ->891 ->381 ->
                                              628 \ -> 882 \ -> 20 \ -> 125 \ -> 627 \ -> 135 \ -> 17 \ -> 878 \ -> 384 \ -> 18 \ -> 273 \ -> 877 \ -> 875 \ -> 625 \ -> 2 \ -> 759 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ 
                                                                                                       ->502 ->5 ->6 ->253 ->
                                            254 \ -> 252 \ -> 7 \ -> 259 \ -> 16 \ -> 22 \ -> 9 \ -> 3 \ -> 12 \ -> 752 \ -> 251 \ -> 750 \ -> 754 \ -> 504 \ -> 250 \ -> 513 \ -> 501
                                                                                                       ->500 ->0 ->1 ->
219 Time: 51.3755521140992641
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