# HIGH PERFORMANCE COMPUTING CS-4373 FINAL PROJECT

Team 2 Project Report

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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:

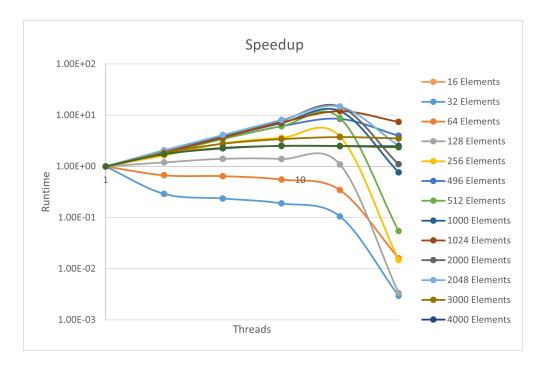


Figure 1: Graph of the speedup that occurs with multiple cores. [LU Decomposition]

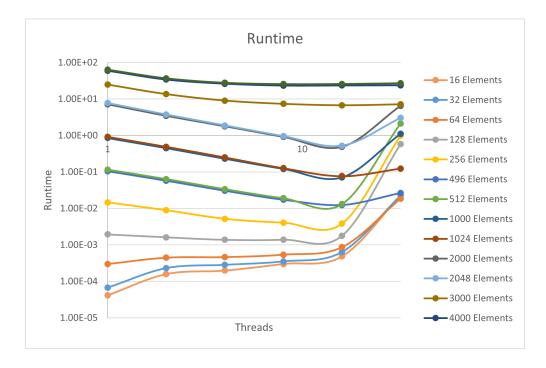


Figure 2: Graph of the runtime for various thread counts. [LU Decomposition]

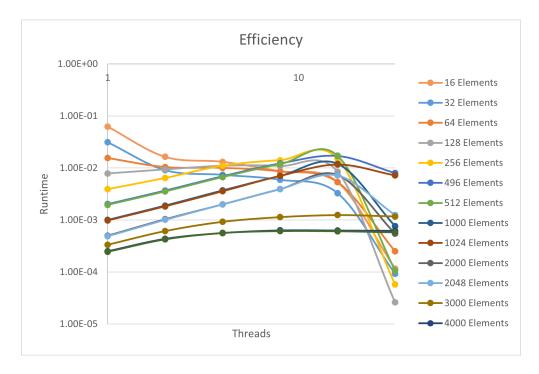


Figure 3: Graph of the efficiency for various thread counts. [LU Decomposition]

# 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:

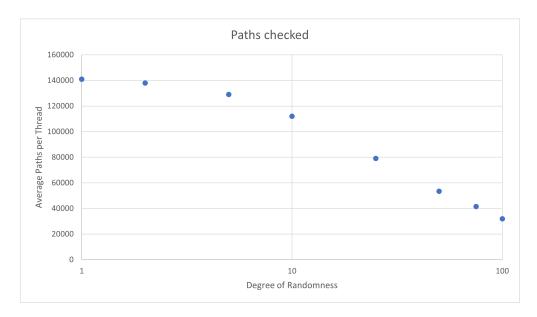


Figure 4: Paths checked per thread based on degree of randomness.

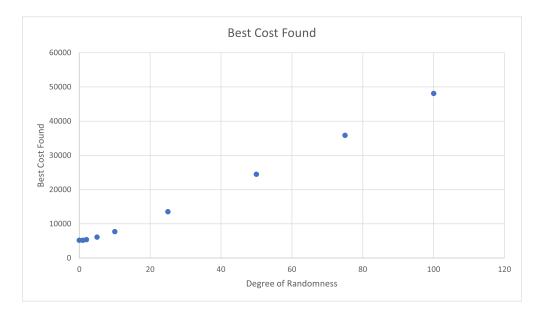


Figure 5: Best cost paths by degree of randomness.

## 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  $\mu$  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  $\mu$ 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  $\mu$ 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  $J^{\mu}$  is the set of all unvisited cities by the  $\mu$ th agent and  $\beta$  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  $\mu$ th agent.

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

where  $\rho$  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:

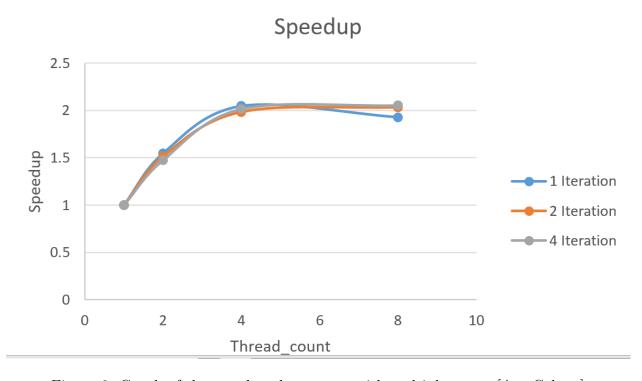


Figure 6: Graph of the speedup that occurs with multiple cores. [Ant Colony]

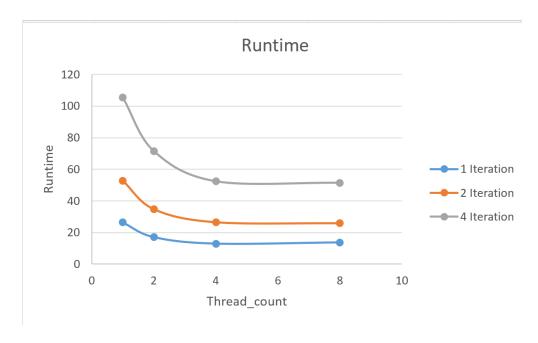


Figure 7: Graph of the runtime for various thread counts. [Ant Colony]



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
{\tt 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 \text{ 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
      \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 ->
                        54 \ -> 243 \ -> 994 \ -> 325 \ -> 282 \ -> 689 \ -> 254 \ -> 738 \ -> 366 \ -> 166 \ -> 161 \ -> 711 \ -> 593 \ -> 89 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899 \ -> 717 \ -> 899
                                                                            ->302 ->534 ->855 ->938 ->
                        666 \ -> 741 \ -> 764 \ -> 102 \ -> 99 \ -> 312 \ -> 747 \ -> 238 \ -> 413 \ -> 576 \ -> 429 \ -> 986 \ -> 815 \ -> 645 \ -> 724 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 16
                                                                                   ->809 ->25 ->736 ->676 ->
                          387 \ -> 948 \ -> 700 \ -> 260 \ -> 389 \ -> 989 \ -> 920 \ -> 223 \ -> 435 \ -> 437 \ -> 408 \ -> 457 \ -> 412 \ -> 658 \ -> 913
                                                                            ->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 ->
                          117 \; -{>}438 \; -{>}607 \; -{>}329 \; -{>}665 \; -{>}152 \; -{>}735 \; -{>}782 \; -{>}473 \; -{>}581 \; -{>}599 \; -{>}481 \; -{>}202 \; -{>}943 \; -{>}349 \; -{>}481 \; -{>}202 \; -{>}943 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}349 \; -{>}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 \ ->\! 780 \ ->\! 767 \ ->\! 153 \ ->\! 781 \ ->\! 428 \ ->\! 459 \ ->\! 122 \ ->\! 173
                                                                            ->951 ->227 ->753 ->221 ->692 ->
                          142 \; ->\! 272 \; ->\! 8 \; ->\! 998 \; ->\! 959 \; ->\! 460 \; ->\! 554 \; ->\! 836 \; ->\! 983 \; ->\! 618 \; ->\! 326 \; ->\! 246 \; ->\! 198 \; ->\! 634 \; ->\! 887 \; ->\! 262 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 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 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 
                                                                         ->914 ->289 ->396 ->132 ->
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                                                                                 ->533 ->490 ->695 ->373 ->
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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
                                                                                    ->317 ->427 ->235 ->644 ->
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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 ->
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28 \ 933 \ ->\! 200 \ ->\! 522 \ ->\! 118 \ ->\! 310 \ ->\! 94 \ ->\! 333 \ ->\! 406 \ ->\! 921 \ ->\! 960 \ ->\! 995 \ ->\! 757 \ ->\! 939 \ ->\! 143 \ ->\! 401 \ ->\! 508 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 
                                                                                         ->693 ->475 ->443 ->512 ->
 29 \ 263 \ ->804 \ ->686 \ ->382 \ ->524 \ ->398 \ ->318 \ ->372 \ ->541 \ ->442 \ ->107 \ ->214 \ ->706 \ ->407 \ ->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 \ ->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 \ -
                                                                                           ->170 ->623 ->467 ->183 ->616 ->
                            612 \;\; ->\! 812 \;\; ->\! 984 \;\; ->\! 332 \;\; ->\! 716 \;\; ->\! 335 \;\; ->\! 760 \;\; ->\! 190 \;\; ->\! 9 \;\; ->\! 996 \;\; ->\! 849 \;\; ->\! 106 \;\; ->\! 885 \;\; ->\! 874 \;\; ->\! 285 \;\; ->\! 911 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; -> 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; -> 100 \;\; ->\! 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
                                                                                  ->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
                                                                              ->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 ->
 35 434 ->268 ->448 ->334 ->745 ->205 ->864 ->754 ->725 ->296 ->940 ->518 ->515 ->86 ->684 ->848
                                                                                             ->698 ->546 ->980 ->796 ->
                            565 ->991 ->256 ->338 ->181 ->823 ->377 ->403 ->750 ->928 ->418 ->74 ->882 ->479 ->87 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->879 ->870 ->870 ->870 ->870 ->870 ->870 ->870 ->870 ->
                                                                                         ->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 \ -> 688 \ -> 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 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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 ->
 43 \ 731 \ -> 710 \ -> 699 \ -> 3 \ -> 92 \ -> 924 \ -> 240 \ -> 705 \ -> 559 \ -> 694 \ -> 702 \ -> 276 \ -> 536 \ -> 582 \ -> 297 \ -> 545 \ -> 545 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ ->
                                                                                  ->37 ->53 ->801 ->179 ->
                            229 \ -> 649 \ -> 184 \ -> 803 \ -> 247 \ -> 468 \ -> 237 \ -> 192 \ -> 49 \ -> 779 \ -> 270 \ -> 762 \ -> 822 \ -> 732 \ -> 838 \ -> 90 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                    ->639 ->972 ->55 ->990 ->
                            450 \ -> 956 \ -> 385 \ -> 734 \ -> 72 \ -> 513 \ -> 98 \ -> 77 \ -> 177 \ -> 496 \ -> 662 \ -> 56 \ -> 629 \ -> 798 \ -> 570 \ -> 688
                                                                                    ->590 ->635 ->926 ->239 ->
                                691 \ -> 742 \ -> 32 \ -> 653 \ -> 544 \ -> 19 \ -> 42 \ -> 905 \ -> 16 \ -> 29 \ -> 538 \ -> 985 \ -> 982 \ -> 903 \ -> 188 \ -> 819 \ -> 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 \ 
                                                                                       ->126 ->488 ->395 ->215 ->
 47 \ 567 \ ->331 \ ->136 \ ->503 \ ->231 \ ->101 \ ->45 \ ->39 \ ->121 \ ->627 \ ->650 \ ->416 \ ->746 \ ->76 \ ->483 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->54
                                                                                ->519 ->224 ->298 ->64 ->
 48\ 12\ ->606\ ->690\ ->930\ ->613\ ->216\ ->242\ ->674\ ->501\ ->71\ ->527\ ->858\ ->279\ ->169\ ->305\ ->988
                                                                                         ->367 ->701 ->749 ->633 ->
                            388 \ -> 723 \ -> 391 \ -> 552 \ -> 641 \ -> 278 \ -> 946 \ -> 233 \ -> 814 \ -> 525 \ -> 271 \ -> 795 \ -> 630 \ -> 785 \ -> 203
                                                                                     ->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 \ -> 62 \ -> 952 \ -> 455 \ -> 13 \ -> 62 \ -> 13 \ -> 62 \ -> 13 \ -> 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 \ 
                                                                                ->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 ->
 53 1 ->
 54 Time: 26.4534653769806027
56 Length: 6225
57
                            0 \ -> 73 \ -> 391 \ -> 422 \ -> 306 \ -> 475 \ -> 443 \ -> 256 \ -> 222 \ -> 778 \ -> 910 \ -> 901 \ -> 448 \ -> 434 \ -> 413 \ -> 148
                                                                                     ->466 ->184 ->272 ->706 ->
                            990 \ -{>}769 \ -{>}702 \ -{>}668 \ -{>}479 \ -{>}875 \ -{>}996 \ -{>}849 \ -{>}977 \ -{>}145 \ -{>}265 \ -{>}625 \ -{>}381 \ -{>}362 \ -{>}415 \ -{>}265 \ -{>}381 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}415 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 \ -{>}362 
                                                                                  ->555 ->898 ->801 ->989 ->464 ->
 60\ 84\ ->912\ ->378\ ->561\ ->721\ ->315\ ->116\ ->227\ ->477\ ->958\ ->223\ ->377\ ->881\ ->234\ ->444\ ->971
                                                                                             ->826 ->830 ->673 ->327 ->
                            954 \ -> 429 \ -> 986 \ -> 815 \ -> 645 \ -> 342 \ -> 797 \ -> 411 \ -> 322 \ -> 894 \ -> 439 \ -> 366 \ -> 725 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 348 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 677 \ -> 6
                                                                                     ->276 ->458 ->823 ->95 ->321 ->
 62 \quad 282 \quad ->341 \quad ->777 \quad ->843 \quad ->966 \quad ->718 \quad ->226 \quad ->928 \quad ->636 \quad ->263 \quad ->453 \quad ->445 \quad ->847 \quad ->984 \quad ->180 \quad -
                                                                                    ->204 ->93 ->151 ->465 ->325 ->
                            670 \;\; ->\! 485 \;\; ->\! 405 \;\; ->\! 450 \;\; ->\! 956 \;\; ->\! 617 \;\; ->\! 819 \;\; ->\! 236 \;\; ->\! 533 \;\; ->\! 963 \;\; ->\! 25 \;\; ->\! 992 \;\; ->\! 660 \;\; ->\! 402 \;\; ->\! 925 \;\; ->\! 649 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 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 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 100
                                                                                              ->452 ->744 ->953 ->497 ->
 64 \quad 853 \quad ->401 \quad ->917 \quad ->959 \quad ->838 \quad ->613 \quad ->903 \quad ->300 \quad ->114 \quad ->841 \quad ->304 \quad ->150 \quad ->280 \quad ->467 \quad ->560 \quad ->160 \quad -
```

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->379 ->225 ->291 ->474 ->319 ->
  65\ 708\ ->344\ ->44\ ->911\ ->289\ ->396\ ->773\ ->457\ ->412\ ->357\ ->459\ ->970\ ->390\ ->979\ ->955\ ->436
                                                                                                            ->934 ->72 ->545 ->449 ->
                                  763 \ -> 312 \ -> 747 \ -> 836 \ -> 983 \ -> 460 \ -> 188 \ -> 251 \ -> 935 \ -> 713 \ -> 230 \ -> 760 \ -> 944 \ -> 359 \ -> 496 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ -> 1930 \ ->
                                                                                                  ->662 ->748 ->716 ->897 ->441 ->
                                534 ->855 ->471 ->632 ->338 ->978 ->407 ->699 ->461 ->137 ->205 ->105 ->906 ->972 ->245
                                                                                              ->284 ->902 ->425 ->648 ->646 ->
                                    492 \; -\!\!>\!\!8 \; -\!\!>\!\!874 \; -\!\!>\!\!994 \; -\!\!>\!\!651 \; -\!\!>\!\!848 \; -\!\!>\!\!421 \; -\!\!>\!\!872 \; -\!\!>\!\!637 \; -\!\!>\!\!899 \; -\!\!>\!\!829 \; -\!\!>\!\!657 \; -\!\!>\!\!46 \; -\!\!>\!\!728 \; -\!\!>\!\!489 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -\!\!>\!\!907 \; -
                                                                                                    ->733 ->973 ->250 ->999 ->
                                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 ->
  ->340 ->809 ->333 ->930 ->215 ->
                            128 \ ->\! 802 \ ->\! 400 \ ->\! 149 \ ->\! 136 \ ->\! 488 \ ->\! 395 \ ->\! 780 \ ->\! 481 \ ->\! 873 \ ->\! 915 \ ->\! 846 \ ->\! 220 \ ->\! 799 \ ->\! 961
                                                                                                    ->715 ->948 ->493 ->193 ->123 ->
                                498 \ -> 559 \ -> 967 \ -> 367 \ -> 704 \ -> 174 \ -> 854 \ -> 913 \ -> 162 \ -> 353 \ -> 310 \ -> 998 \ -> 350 \ -> 840 \ -> 420 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                              ->627 ->109 ->833 ->349 ->267 ->
                                    ->839 ->927 ->246 ->810 ->
                                  472 \; ->\! 208 \; ->\! 538 \; ->\! 247 \; ->\! 468 \; ->\! 212 \; ->\! 887 \; ->\! 262 \; ->\! 765 \; ->\! 923 \; ->\! 301 \; ->\! 845 \; ->\! 712 \; ->\! 218 \; ->\! 694 \; ->\! 712 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 
                                                                                              ->309 ->252 ->882 ->295 ->968 ->
  75 \quad 731 \quad -> 710 \quad -> 334 \quad -> 106 \quad -> 885 \quad -> 739 \quad -> 964 \quad -> 339 \quad -> 863 \quad -> 487 \quad -> 735 \quad -> 58 \quad -> 856 \quad -> 705 \quad -> 125 \quad -> 37 \quad -> 125 \quad -
                                                                                                      ->615 ->969 ->835 ->793 ->
                                404 \ -> 892 \ -> 736 \ -> 438 \ -> 329 \ -> 665 \ -> 722 \ -> 440 \ -> 818 \ -> 296 \ -> 940 \ -> 140 \ -> 880 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 774 \ -> 980 \ -> 7
                                                                                              ->268 ->640 ->346 ->805 ->947 ->
                                  867 \; ->\! 676 \; ->\! 962 \; ->\! 658 \; ->\! 792 \; ->\! 157 \; ->\! 932 \; ->\! 798 \; ->\! 859 \; ->\! 975 \; ->\! 383 \; ->\! 759 \; ->\! 758 \; ->\! 499 \; ->\! 937 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 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 
                                                                                                      ->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 \; -> 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 \; -> 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 \ ->\hspace186 \ ->\hspace1
                                                                                                  ->423 ->318 ->372 ->198 ->634 ->
                                  924 \ ->374 \ ->494 \ ->624 \ ->896 \ ->895 \ ->358 \ ->929 \ ->890 \ ->99 \ ->455 \ ->163 \ ->709 \ ->328 \ ->595 \ ->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 \ ->261 \
                                                                                                            ->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 ->
  84 \ \ 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 \ \
                                                                                                  ->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 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 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 \; ->\! 10000 \; ->\! 10000 \; ->\!
                                                                                              ->675 ->51 ->700 ->767 ->695 ->
                                    ->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 \; -> 146 \; -> 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
                                                                                                  ->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 \ -> 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 ->
                                  49 \ -> 796 \ -> 599 \ -> 724 \ -> 824 \ -> 126 \ -> 851 \ -> 606 \ -> 690 \ -> 224 \ -> 121 \ -> 740 \ -> 852 \ -> 754 \ -> 804 \ -> 686 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 851 \ -> 85
                                                                                                        ->94 ->768 ->392 ->127 ->
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 105 \ 572 \ ->181 \ ->521 \ ->57 \ ->22 \ ->26 \ ->524 \ ->546 \ ->622 \ ->34 \ ->551 \ ->570 \ ->35 \ ->506 \ ->587 \ ->504 \ ->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 \ ->506 \ ->506
                                                                                             ->54 ->30 ->535 ->519 ->
 106 \ 558 \ ->17 \ ->525 \ ->16 \ ->29 \ ->509 \ ->630 \ ->575 \ ->539 \ ->118 \ ->138 \ ->503 \ ->2 \ ->11 \ ->386 \ ->264
                                                                                       ->505 ->71 ->514 ->511 ->
                                       542 \; -> 508 \; -> 750 \; -> 9 \; -> 4 \; -> 510 \; -> 540 \; -> 557 \; -> 10 \; -> 501 \; -> 502 \; -> 5 \; -> 6 \; -> 13 \; -> 3 \; -> 7 \; -> 500 \; -> 27 \; -> 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 \; -
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109 Time: 17.1059828097932041
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113 \ 1 \ -> 131 \ -> 165 \ -> 826 \ -> 645 \ -> 980 \ -> 227 \ -> 154 \ -> 716 \ -> 897 \ -> 457 \ -> 207 \ -> 743 \ -> 914 \ -> 914 \ -> 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 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ -> 111 \ 
                                                                                         ->474 ->919 ->456 ->184 ->
                                     999 \ -> 881 \ -> 234 \ -> 444 \ -> 971 \ -> 197 \ -> 678 \ -> 489 \ -> 245 \ -> 616 \ -> 32 \ -> 893 \ -> 684 \ -> 124 \ -> 949 \ -> 719
                                                                                                        ->724 ->470 ->413 ->148 ->
 115 \quad 247 \quad -> 468 \quad -> 212 \quad -> 246 \quad -> 966 \quad -> 218 \quad -> 427 \quad -> 235 \quad -> 487 \quad -> 735 \quad -> 102 \quad -> 975 \quad -> 622 \quad -> 469 \quad -> 986 
                                                                                             ->232 ->629 ->981 ->226 ->660 ->
116 \ \ 393 \ \ ->979 \ \ ->219 \ \ ->867 \ \ ->438 \ \ ->194 \ \ ->448 \ \ ->434 \ \ ->723 \ \ ->391 \ \ ->419 \ \ ->440 \ \ ->670 \ \ \ ->721 \ \ ->714
                                                                                               ->633 ->730 ->241 ->933 ->160 ->
                                     953 \ -> 497 \ -> 727 \ -> 418 \ -> 656 \ -> 100 \ -> 475 \ -> 937 \ -> 748 \ -> 963 \ -> 481 \ -> 745 \ -> 928 \ -> 416 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 189 \ -> 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
                                                                                               ->939 ->967 ->220 ->354 ->495 ->
                                     386 \ -> 916 \ -> 223 \ -> 377 \ -> 187 \ -> 206 \ -> 632 \ -> 123 \ -> 136 \ -> 488 \ -> 463 \ -> 113 \ -> 680 \ -> 150 \ -> 280
                                                                                               ->467 ->934 ->446 ->233 ->993 ->
                                     874 \ ->994 \ ->624 \ ->734 \ ->443 \ ->782 \ ->394 \ ->345 \ ->170 \ ->248 \ ->682 \ ->476 \ ->417 \ ->421 \ ->657 \ ->476 \ ->476 \ ->476 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 \ ->477 
                                                                                                      ->677 ->574 ->712 ->163 ->
 120\ \ 464\ \ ->426\ \ ->924\ \ ->374\ \ ->494\ \ ->996\ \ ->493\ \ ->479\ \ ->875\ \ ->404\ \ ->689\ \ ->925\ \ ->132\ \ ->199\ \ ->486
                                                                                         ->383 ->454 ->603 ->433 ->646 ->
121
                                     492 \ ->\! 266 \ ->\! 357 \ ->\! 459 \ ->\! 922 \ ->\! 666 \ ->\! 741 \ ->\! 240 \ ->\! 364 \ ->\! 164 \ ->\! 998 \ ->\! 350 \ ->\! 720 \ ->\! 959 \ ->\! 460
                                                                                                  ->942 ->230 ->654 ->636 ->729 ->
                                     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 \ -> 12
                                                                                                      ->648 ->904 ->109 ->737 ->
                                     663 \ -> 883 \ -> 917 \ -> 445 \ -> 362 \ -> 699 \ -> 626 \ -> 159 \ -> 623 \ -> 669 \ -> 746 \ -> 439 \ -> 402 \ -> 861 \ -> 973 \ -> 620 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                           ->683 ->286 ->974 ->588 ->652 ->
                                         483 \; -> 936 \; -> 658 \; -> 738 \; -> 195 \; -> 209 \; -> 703 \; -> 621 \; -> 431 \; -> 336 \; -> 482 \; -> 484 \; -> 957 \; -> 871 \; -> 485 \; -> 482 \; -> 485 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 486 \; -> 4
                                                                                               ->405 ->968 ->965 ->90 ->876 ->
                                     590 \ ->\! 200 \ ->\! 203 \ ->\! 890 \ ->\! 847 \ ->\! 954 \ ->\! 938 \ ->\! 695 \ ->\! 900 \ ->\! 586 \ ->\! 435 \ ->\! 627 \ ->\! 353 \ ->\! 640 \ ->\! 429
                                                                                       ->359 ->216 ->225 ->715 ->948 ->
 126 \ 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 
                                                                                                  ->628 ->739 ->637 ->706 ->407 ->
 ->135 ->985 ->982 ->698 ->491 ->
                                     244 \;\; ->\! 370 \;\; ->\! 215 \;\; ->\! 449 \;\; ->\! 477 \;\; ->\! 850 \;\; ->\! 886 \;\; ->\! 877 \;\; ->\! 943 \;\; ->\! 349 \;\; ->\! 960 \;\; ->\! 651 \;\; ->\! 848 \;\; ->\! 89 \;\; ->\! 717 \;\; ->\! 945 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 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 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 100
                                                                                                         ->342 ->186 ->375 ->166 ->
                                     161 \ -> 711 \ -> 181 \ -> 368 \ -> 399 \ -> 204 \ -> 93 \ -> 151 \ -> 465 \ -> 958 \ -> 614 \ -> 700 \ -> 260 \ -> 224 \ -> 570 \ -> 915 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                                      ->178 ->149 ->367 ->704 ->
 130 458 ->823 ->442 ->649 ->452 ->473 ->581 ->599 ->371 ->398 ->690 ->866 ->736 ->236 ->478
                                                                                               ->144 ->984 ->609 ->249 ->887 ->
                                     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 \;\; 
                                                                                           ->642 ->432 ->99 ->842 ->
 132 \ 67 \ ->597 \ ->708 \ ->139 \ ->692 \ ->142 \ ->180 \ ->889 \ ->990 \ ->450 \ ->956 \ ->385 \ ->397 \ ->927 \ ->451 \ ->185 \ ->910 \ ->185 \ ->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 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ ->910 \ -
                                                                                                    ->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 ->
```

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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 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 \ -> 606 
                                                                                               ->909 ->661 ->65 ->725 ->400 ->
                                   845 \ -> 892 \ -> 655 \ -> 903 \ -> 111 \ -> 902 \ -> 888 \ -> 97 \ -> 962 \ -> 676 \ -> 591 \ -> 873 \ -> 865 \ -> 831 \ -> 696 \ -> 584
                                                                                                 ->168 ->607 ->859 ->548 ->
                                   346 \ -> 221 \ -> 455 \ -> 213 \ -> 952 \ -> 373 \ -> 860 \ -> 812 \ -> 674 \ -> 366 \ -> 961 \ -> 127 \ -> 602 \ -> 411 \ -> 172 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 127 \ -> 1
                                                                                             ->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 ->
 140 \ 310 \ ->\!846 \ ->\!855 \ ->\!471 \ ->\!688 \ ->\!578 \ ->\!951 \ ->\!709 \ ->\!156 \ ->\!989 \ ->\!920 \ ->\!60 \ ->\!950 \ ->\!196 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!566 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \ ->\!304 \
                                                                                                 ->121 ->740 ->868 ->179 ->
                                   229 \ -{>}361 \ -{>}396 \ -{>}428 \ -{>}158 \ -{>}461 \ -{>}355 \ -{>}665 \ -{>}380 \ -{>}174 \ -{>}338 \ -{>}829 \ -{>}173 \ -{>}352 \ -{>}644
                                                                                       ->932 ->403 ->95 ->183 ->671 ->
 142 \quad 146 \quad ->356 \quad ->15 \quad ->884 \quad ->589 \quad ->466 \quad ->749 \quad ->834 \quad ->878 \quad ->344 \quad ->822 \quad ->615 \quad ->107 \quad ->214 \quad ->347 \quad ->906 \quad ->107 \quad ->214 \quad ->347 \quad ->906 \quad ->107 \quad ->214 \quad ->347 \quad ->906 \quad ->107 \quad ->107 \quad ->214 \quad ->347 \quad ->906 \quad ->107 \quad -
                                                                                                 ->972 ->55 ->613 ->827 ->
                                     694 \; -> 839 \; -> 319 \; -> 539 \; -> 91 \; -> 638 \; -> 788 \; -> 41 \; -> 122 \; -> 490 \; -> 807 \; -> 635 \; -> 852 \; -> 210 \; -> 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 \; -> 100
                                                                                               ->401 ->879 ->667 ->905 ->
                                   561 \ -> 147 \ -> 447 \ -> 555 \ -> 801 \ -> 901 \ -> 406 \ -> 610 \ -> 830 \ -> 128 \ -> 802 \ -> 408 \ -> 308 \ -> 50 \ -> 885 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 853 \ -> 85
                                                                                                 ->87 ->896 ->330 ->562 ->
 145 \ 592 \ -> 619 \ -> 312 \ -> 747 \ -> 410 \ -> 796 \ -> 639 \ -> 608 \ -> 854 \ -> 836 \ -> 947 \ -> 379 \ -> 193 \ -> 326 \ -> 882
                                                                                        ->295 ->348 ->436 ->331 ->832 ->
                                     617 \ ->281 \ ->72 \ ->800 \ ->659 \ ->175 \ ->817 \ ->103 \ ->395 \ ->587 \ ->300 \ ->841 \ ->141 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->414 \ ->190 \ ->521 \ ->190 \ ->521 \ ->190 \ ->521 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \ ->190 \
                                                                                                 ->816 ->540 ->595 ->828 ->
                                   815 \ -> 571 \ -> 600 \ -> 309 \ -> 40 \ -> 56 \ -> 79 \ -> 80 \ -> 76 \ -> 58 \ -> 82 \ -> 779 \ -> 69 \ -> 157 \ -> 315 \ -> 585 \ -> 969 \ -> 157 \ -> 157 \ -> 158 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 1585 \ -> 15
                                                                                     ->593 ->778 ->66 ->
                                     605 \ -> 105 \ -> 202 \ -> 188 \ -> 819 \ -> 601 \ -> 317 \ -> 81 \ -> 620 \ -> 563 \ -> 71 \ -> 806 \ -> 322 \ -> 894 \ -> 63 \ -> 681
                                                                                       ->647 ->430 ->531 ->625 ->
                                   824 \ -> 126 \ -> 851 \ -> 85 \ -> 844 \ -> 327 \ -> 78 \ -> 138 \ -> 527 \ -> 201 \ -> 306 \ -> 611 \ -> 810 \ -> 115 \ -> 567 \ -> 731 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110
                                                                                       ->710 ->192 ->556 ->53 ->
 150 \ 862 \ ->843 \ ->340 \ ->560 \ ->799 \ ->365 \ ->39 \ ->96 \ ->323 \ ->793 \ ->43 \ ->318 \ ->303 \ ->351 \ ->59 \ ->77 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \ ->70 \
                                                                                            ->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
                                                                                     ->31 ->27 ->51 ->838 ->
                                     33 \ -> 557 \ -> 320 \ -> 116 \ -> 814 \ -> 337 \ -> 538 \ -> 22 \ -> 820 \ -> 783 \ -> 34 \ -> 551 \ -> 552 \ -> 536 \ -> 774 \ -> 296
                                                                                          ->776 ->29 ->515 ->86 ->
 154 \ 576 \ -> 784 \ -> 795 \ -> 313 \ -> 36 \ -> 930 \ -> 35 \ -> 537 \ -> 335 \ -> 389 \ -> 534 \ -> 299 \ -> 92 \ -> 83 \ -> 284 \ -> 333 \ -> 389 \ -> 333 \ -> 389 \ -> 333 \ -> 389 \ -> 333 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ -> 389 \ ->
                                                                                   ->21 ->290 ->545 ->687 ->
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                                                                                             ->48 ->781 ->28 ->20 ->
                                   612 \;\; ->\! 285 \;\; ->\! 294 \;\; ->\! 46 \;\; ->\! 25 \;\; ->\! 786 \;\; ->\! 54 \;\; ->\! 37 \;\; ->\! 553 \;\; ->\! 104 \;\; ->\! 835 \;\; ->\! 789 \;\; ->\! 171 \;\; ->\! 825 \;\; ->\! 287 \;\; ->\! 761 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 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 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 10000 \;\; ->\! 1000
                                                                                          ->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 ->
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                                                                                     ->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 \ ->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 ->
 160 \ 535 \ ->\! 283 \ ->\! 293 \ ->\! 522 \ ->\! 274 \ ->\! 770 \ ->\! 526 \ ->\! 523 \ ->\! 791 \ ->\! 533 \ ->\! 510 \ ->\! 250 \ ->\! 273 \ ->\! 554 \ ->\! 7 \ ->\! 508
                                                                                   ->258 ->289 ->17 ->525 ->
 161\ 4\ -> 756\ -> 282\ -> 254\ -> 332\ -> 261\ -> 766\ -> 2\ -> 264\ -> 512\ -> 785\ -> 764\ -> 755\ -> 255\ -> 253\ -> 516
                                                                                 ->760 ->751 ->514 ->763 ->
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                                                                                   ->506 ->509 ->507 ->0 ->3 ->
164 Time: 12.9266952360048890
166 Length: 8530
 167
                                   2\ ->\! 849\ ->\! 249\ ->\! 227\ ->\! 122\ ->\! 738\ ->\! 366\ ->\! 971\ ->\! 589\ ->\! 868\ ->\! 678\ ->\! 727\ ->\! 686\ ->\! 594\ ->\! 477\ ->\! 958
                                                                                       ->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 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 479 \ -> 47
                                                                                                 ->745 ->749 ->834 ->341 ->
 171\ 348\ ->460\ ->847\ ->954\ ->429\ ->986\ ->945\ ->238\ ->244\ ->370\ ->736\ ->236\ ->478\ ->462\ ->983
```

```
->956 ->617 ->474 ->726 ->344 ->
 ->113 ->713 ->123 ->692 ->
                                        585 \ -{>}368 \ -{>}361 \ -{>}955 \ -{>}436 \ -{>}331 \ -{>}870 \ -{>}496 \ -{>}836 \ -{>}111 \ -{>}104 \ -{>}992 \ -{>}930 \ -{>}98
                                                                                                      ->698 ->463 ->697 ->610 ->586 ->
                                            744 \ -> 598 \ -> 959 \ -> 124 \ -> 454 \ -> 985 \ -> 107 \ -> 214 \ -> 706 \ -> 109 \ -> 737 \ -> 605 \ -> 225 \ -> 715 \ -> 948 \ -> 109 \ -> 737 \ -> 109 \ -> 737 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 109 \ -> 715 \ -> 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 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 101 \ -> 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 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -> 100 \;\; -
                                                                                                          ->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 ->
                                        73 \ -> 550 \ -> 210 \ -> 334 \ -> 369 \ -> 206 \ -> 533 \ -> 719 \ -> 841 \ -> 622 \ -> 673 \ -> 857 \ -> 231 \ -> 194 \ -> 171 \ -> 489 \ -> 171 \ -> 194 \ -> 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 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 171 \ -> 17
                                                                                                              ->871 ->485 ->939 ->143 ->
                                          856 \ ->\! 246 \ ->\! 248 \ ->\! 360 \ ->\! 488 \ ->\! 207 \ ->\! 722 \ ->\! 326 \ ->\! 556 \ ->\! 842 \ ->\! 68 \ ->\! 173 \ ->\! 243 \ ->\! 852 \ ->\! 618 \ ->\! 567 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \
                                                                                                                ->374 ->616 ->455 ->608 ->
                                                                                        -> 704 \ -> 997 \ -> 215 \ -> 449 \ -> 216 \ -> 872 \ -> 984 \ -> 931 \ -> 718 \ -> 94 \ -> 723 \ -> 583 \ -> 982 \ -> 345 \ -> 314
                                                                                                              ->211 ->748 ->440 ->829 ->
 182\ 584\ ->412\ ->116\ ->467\ ->741\ ->324\ ->935\ ->577\ ->609\ ->447\ ->728\ ->855\ ->708\ ->999\ ->72\ ->679\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->679\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->72\ ->999\ ->999\ ->72\ ->999\ ->999\ ->72\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->999\ ->99
                                                                                                                ->205 ->105 ->453 ->193 ->
                                        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 
                                                                                                    ->947 ->103 ->228 ->71 ->167 ->
                                        746 \;\; -> 439 \;\; -> 656 \;\; -> 427 \;\; -> 235 \;\; -> 239 \;\; -> 993 \;\; -> 45 \;\; -> 943 \;\; -> 373 \;\; -> 812 \;\; -> 464 \;\; -> 84 \;\; -> 710 \;\; -> 689 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\; -> 469 \;\;
                                                                                                          ->839 ->961 ->297 ->952 ->
                                            423 \ -> 712 \ -> 691 \ -> 333 \ -> 688 \ -> 590 \ -> 413 \ -> 364 \ -> 388 \ -> 490 \ -> 729 \ -> 60 \ -> 950 \ -> 827 \ -> 468 \ -> 212
                                                                                                              ->828 ->446 ->219 ->88 ->
                                          615 \ -> 365 \ -> 696 \ -> 824 \ -> 69 \ -> 102 \ -> 995 \ -> 597 \ -> 566 \ -> 476 \ -> 558 \ -> 112 \ -> 62 \ -> 342 \ -> 797 \ -> 933 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                                  ->977 ->117 ->217 ->693 ->
                                          204 \ -> 79 \ -> 321 \ -> 57 \ -> 844 \ -> 356 \ -> 662 \ -> 300 \ -> 806 \ -> 944 \ -> 336 \ -> 400 \ -> 350 \ -> 720 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 328 \ -> 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 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                                              ->926 ->581 ->655 ->890 ->
 192 \ 196 \ ->540 \ ->561 \ ->466 \ ->346 \ ->221 \ ->672 \ ->979 \ ->973 \ ->46 \ ->802 \ ->52 \ ->974 \ ->339 \ ->667 \ ->808 \ ->670 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->808 \ ->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 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 \; ->\! 851 
                                                                                                                  ->918 ->730 ->187 ->544 ->
                                        233 \ ->\! 296 \ ->\! 898 \ ->\! 155 \ ->\! 825 \ ->\! 800 \ ->\! 409 \ ->\! 303 \ ->\! 810 \ ->\! 276 \ ->\! 96 \ ->\! 492 \ ->\! 685 \ ->\! 942 \ ->\! 77 \ ->\! 813
                                                                                                ->702 ->734 ->578 ->265 ->
 196 \ \ 299 \ \ ->509 \ \ ->735 \ \ ->515 \ \ ->86 \ \ ->666 \ \ ->794 \ \ ->157 \ \ ->680 \ \ ->541 \ \ ->97 \ \ ->182 \ \ ->543 \ \ ->284 \ \ ->61 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ ->913 \ \ -
                                                                                                ->773 ->168 ->538 ->247 ->
                                          21 \ -> 290 \ -> 623 \ -> 835 \ -> 793 \ -> 43 \ -> 949 \ -> 397 \ -> 138 \ -> 186 \ -> 278 \ -> 665 \ -> 846 \ -> 914 \ -> 419 \ -> 437 \ -> 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
                                                                                                  ->658 ->652 ->27 ->882 ->
                                            669 \ -> 557 \ -> 161 \ -> 47 \ -> 902 \ -> 425 \ -> 169 \ -> 305 \ -> 563 \ -> 934 \ -> 703 \ -> 499 \ -> 19 \ -> 790 \ -> 313 \ -> 771 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                ->511 ->976 ->367 ->646 ->
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                                                                                                ->906 ->277 ->937 ->144 ->408 ->
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211
                                                                                                                         ->163 ->574 ->628 ->885 ->406 ->
                                              508 \ -> 507 \ -> 650 \ -> 416 \ -> 424 \ -> 788 \ -> 516 \ -> 259 \ -> 20 \ -> 514 \ -> 29 \ -> 552 \ -> 404 \ -> 148 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 881 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562 \ -> 562
                                                                                                                  ->641 ->903 ->38 ->147 ->
                                              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 \ -> 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 ->
                                                524 \ -> 18 \ -> 376 \ -> 758 \ -> 14 \ -> 34 \ -> 811 \ -> 379 \ -> 876 \ -> 762 \ -> 880 \ -> 754 \ -> 760 \ -> 22 \ -> 845 \ -> 526
                                                                                                                ->503 ->129 ->783 ->323 ->
215 \ 779 \ ->504 \ ->891 \ ->7 \ ->10 \ ->25 \ ->383 \ ->512 \ ->627 \ ->386 \ ->132 \ ->645 \ ->35 \ ->753 \ ->502 \ ->909 \ ->400 \ ->900 \ ->400 \ ->900 \ ->400 \ ->900 \ ->400 \ ->900 \ ->900 \ ->400 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900 \ ->900
                                                                                                                         ->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 ->
218 2 ->
219 Time: 13.7177257919684052
```

#### 2 Iteration

```
1 Length: 5659
    31 -> 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 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 197 -> 19
                                                      ->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
                                                         ->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 ->
                    117 \; -> 438 \; -> 607 \; -> 329 \; -> 665 \; -> 152 \; -> 735 \; -> 782 \; -> 473 \; -> 581 \; -> 599 \; -> 481 \; -> 202 \; -> 943 \; -> 349 \; -> 481 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 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
                                                         ->267 ->489 ->264 ->562 ->471 ->
                  632 \ -> 621 \ -> 431 \ -> 497 \ -> 115 \ -> 0 \ -> 73 \ -> 840 \ -> 420 \ -> 69 \ -> 157 \ -> 6 \ -> 281 \ -> 555 \ -> 898 \ -> 549
                                                       ->817 ->794 ->884 ->999 ->
                  860 \ ->\! 245 \ ->\! 894 \ ->\! 712 \ ->\! 591 \ ->\! 703 \ ->\! 360 \ ->\! 780 \ ->\! 767 \ ->\! 153 \ ->\! 781 \ ->\! 428 \ ->\! 459 \ ->\! 122 \ ->\! 173
                                                            ->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 ->
                  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 \ -> 11
                                                               ->533 ->490 ->695 ->373 ->
                   597 \ -> 59 \ -> 320 \ -> 829 \ -> 411 \ -> 509 \ -> 979 \ -> 219 \ -> 295 \ -> 485 \ -> 771 \ -> 654 \ -> 636 \ -> 88 \ -> 492 \ -> 602
                                                           ->589 ->500 ->187 ->340 ->
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 ->921 \quad ->921
                                                      ->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 ->
                  932 \; ->\! 480 \; ->\! 97 \; ->\! 381 \; ->\! 362 \; ->\! 415 \; ->\! 131 \; ->\! 768 \; ->\! 499 \; ->\! 2 \; ->\! 210 \; ->\! 5 \; ->\! 722 \; ->\! 440 \; ->\! 191 \; ->\! 977 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 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 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 100000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10
                                                         ->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 ->
20 \ \ 204 \ \ ->93 \ \ ->140 \ \ ->775 \ \ ->685 \ \ ->942 \ \ ->375 \ \ \ ->550 \ \ ->523 \ \ ->847 \ \ ->954 \ \ ->176 \ \ ->160 \ \ ->953 \ \ ->125 \ \ ->504
                                         ->393 ->105 ->673 ->622 ->
```

```
21 \quad 469 \quad ->345 \quad ->585 \quad ->495 \quad ->807 \quad ->114 \quad ->119 \quad ->294 \quad ->572 \quad ->487 \quad ->907 \quad ->733 \quad ->95 \quad ->321 \quad ->189 \quad ->624 \quad ->189 \quad ->807 \quad ->
                                                                                                    ->896 ->895 ->358 ->34 ->
 22 \quad 740 \quad ->852 \quad ->802 \quad ->400 \quad ->314 \quad ->211 \quad ->172 \quad ->968 \quad ->965 \quad ->955 \quad ->770 \quad ->392 \quad ->967 \quad ->828 \quad ->287 \quad ->828 \quad ->287 \quad ->828 \quad ->887 \quad ->888 \quad ->887 \quad ->888 \quad -
                                                                                                    ->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 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 \ -> 892 
                                                                                                  ->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 ->
 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 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \ ->\! 120 \
                                                                                                      ->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 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; -> 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; ->\! 100 \;\; -> 100 \;\; ->\! 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
                                                                                        ->825 ->134 ->255 ->43 ->
 31\ 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 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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 ->
                               11 \ -> 384 \ -> 664 \ -> 461 \ -> 439 \ -> 579 \ -> 130 \ -> 371 \ -> 837 \ -> 596 \ -> 405 \ -> 608 \ -> 108 \ -> 850 \ -> 111 \ -> 902
                                                                                                        ->425 ->474 ->319 ->7 ->
                               434 -> 268 -> 448 -> 334 -> 745 -> 205 -> 864 -> 754 -> 725 -> 296 -> 940 -> 518 -> 515 -> 86 -> 684 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 848 -> 8
                                                                                                      ->698 ->546 ->980 ->796 ->
 36\ 565\ ->991\ ->256\ ->338\ ->181\ ->823\ ->377\ ->403\ ->750\ ->928\ ->418\ ->74\ ->82\ ->479\ ->879\ ->879
                                                                                                ->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 \ -> 656 \ -> 78
                                                                                            ->651 ->484 ->957 ->66 ->
                                 286 \ -> 863 \ -> 399 \ -> 498 \ -> 4 \ -> 226 \ -> 348 \ -> 96 \ -> 743 \ -> 578 \ -> 981 \ -> 865 \ -> 510 \ -> 232 \ -> 962 \ -> 212 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 
                                                                                          ->250 ->422 ->707 ->640 ->
 40\ 756\ ->784\ ->379\ ->288\ ->661\ ->65\ ->194\ ->871\ ->128\ ->617\ ->730\ ->241\ ->454\ ->603\ ->818\ ->600
                                                                                                    ->598 ->147 ->675 ->931 ->
                               876 \ -> 758 \ -> 620 \ -> 22 \ -> 26 \ -> 668 \ -> 909 \ -> 854 \ -> 772 \ -> 137 \ -> 993 \ -> 683 \ -> 787 \ -> 13 \ -> 430 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 \ -> 861 
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                                   229 \ -> 649 \ -> 184 \ -> 803 \ -> 247 \ -> 468 \ -> 237 \ -> 192 \ -> 49 \ -> 779 \ -> 270 \ -> 762 \ -> 822 \ -> 732 \ -> 838 \ -> 90 \ -> 700 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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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                                                                                        ->590 ->635 ->926 ->239 ->
                                 691 \;\; ->\! 742 \;\; ->\! 32 \;\; ->\! 653 \;\; ->\! 544 \;\; ->\! 19 \;\; ->\! 42 \;\; ->\! 905 \;\; ->\! 16 \;\; ->\! 29 \;\; ->\! 538 \;\; ->\! 985 \;\; ->\! 982 \;\; ->\! 903 \;\; ->\! 188 \;\; ->\! 819 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 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
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 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 \ -
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                               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 \ -> 62 \ -> 952 \ -> 455 \ -> 13 \ -> 62 \ -> 952 \ -> 455 \ -> 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 
                                                                                      ->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 ->
53 1 ->
54 Time: 52.7259218120016158
56 Length: 6076
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58 \ 1 \ ->\!265 \ ->\!625 \ ->\!381 \ ->\!250 \ ->\!811 \ ->\!869 \ ->\!302 \ ->\!56 \ ->\!364 \ ->\!255 \ ->\!711 \ ->\!471 \ ->\!870 \ ->\!496 \ ->\!672
                                                                                                 ->752 ->856 ->860 ->523 ->
                               450 \; -> 330 \; -> 667 \; -> 378 \; -> 571 \; -> 769 \; -> 708 \; -> 959 \; -> 966 \; -> 764 \; -> 961 \; -> 326 \; -> 246 \; -> 349 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 493 \; -> 4
                                                                                             ->223 ->435 ->792 ->911 ->480 ->
                                 97 \ ->\! 243 \ ->\! 994 \ ->\! 651 \ ->\! 485 \ ->\! 346 \ ->\! 977 \ ->\! 167 \ ->\! 307 \ ->\! 855 \ ->\! 871 \ ->\! 670 \ ->\! 484 \ ->\! 979 \ ->\! 365 \ ->\! 382
                                                                                                       ->428 ->459 ->591 ->984 ->
                                 332 \; ->\! 813 \; ->\! 785 \; ->\! 221 \; ->\! 455 \; ->\! 375 \; ->\! 373 \; ->\! 256 \; ->\! 291 \; ->\! 790 \; ->\! 96 \; ->\! 321 \; ->\! 189 \; ->\! 352 \; ->\! 644 \; ->\! 932 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 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 \; ->\! 100000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 100000 \;
                                                                                                         ->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 ->
 63 \ 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 \ -
                                                                                                     ->448 ->175 ->866 ->335 ->
                               294 \ ->\! 262 \ ->\! 765 \ ->\! 923 \ ->\! 306 \ ->\! 129 \ ->\! 614 \ ->\! 832 \ ->\! 863 \ ->\! 487 \ ->\! 907 \ ->\! 689 \ ->\! 933 \ ->\! 725 \ ->\! 400
                                                                                               ->956 ->815 ->972 ->245 ->616 ->
                               275 \ -> 682 \ -> 532 \ -> 478 \ -> 657 \ -> 46 \ -> 802 \ -> 761 \ -> 443 \ -> 405 \ -> 389 \ -> 161 \ -> 889 \ -> 771 \ -> 654 \ -> 441 \ -> 405 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 1000 \ -> 10
                                                                                                     ->894 ->439 ->366 ->987 ->
                                   273 \ ->706 \ ->864 \ ->290 \ ->397 \ ->138 \ ->527 \ ->845 \ ->712 \ ->163 \ ->464 \ ->432 \ ->287 \ ->970 \ ->695 \ ->695 \ ->712 \ ->163 \ ->464 \ ->432 \ ->287 \ ->970 \ ->695 \ ->712 \ ->163 \ ->163 \ ->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 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 \ ->164 
                                                                                             ->680 ->341 ->897 ->462 ->215 ->
                                   449 \; ->\! 477 \; ->\! 958 \; ->\! 350 \; ->\! 720 \; ->\! 744 \; ->\! 598 \; ->\! 499 \; ->\! 937 \; ->\! 421 \; ->\! 754 \; ->\! 804 \; ->\! 658 \; ->\! 738 \; ->\! 916
                                                                                       ->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 \ -{>}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 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 \ -{>}888 
                                                                                           ->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 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 \; ->\! 881 
                                                                                           ->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 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 846 \ -> 8
                                                                                             ->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 \ -{>}
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                                 674 \ -> 853 \ -> 401 \ -> 216 \ -> 626 \ -> 783 \ -> 718 \ -> 152 \ -> 218 \ -> 636 \ -> 685 \ -> 249 \ -> 227 \ -> 753 \ -> 458 \ -> 636 \ -> 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 \ -> 6
                                                                                               ->928 ->111 ->407 ->646 ->756 ->
                                 784 \ -> 379 \ -> 193 \ -> 371 \ -> 479 \ -> 281 \ -> 271 \ -> 980 \ -> 268 \ -> 640 \ -> 948 \ -> 444 \ -> 369 \ -> 206 \ -> 258 \ -> 640 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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 ->
 79 \quad 254 \quad ->316 \quad ->967 \quad ->236 \quad ->84 \quad ->314 \quad ->353 \quad ->762 \quad ->611 \quad ->209 \quad ->342 \quad ->406 \quad ->610 \quad ->135 \quad ->747 \quad ->926 \quad ->967 \quad ->
                                                                                                       ->903 ->188 ->470 ->199 ->
                               486 \ -> 106 \ -> 896 \ -> 777 \ -> 822 \ -> 296 \ -> 201 \ -> 469 \ -> 172 \ -> 791 \ -> 299 \ -> 697 \ -> 304 \ -> 150 \ -> 540
                                                                                                     ->165 ->826 ->251 ->844 ->491 ->
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                                                                                                       ->836 ->893 ->684 ->124 ->
 82 \quad 668 \quad ->409 \quad ->875 \quad ->404 \quad ->892 \quad ->609 \quad ->116 \quad ->228 \quad ->68 \quad ->669 \quad ->746 \quad ->795 \quad ->763 \quad ->132 \quad ->912 \quad ->317 \quad ->912 \quad ->
                                                                                                       ->917 ->149 ->367 ->794 ->
                               530 \ \ ->177 \ \ ->50 \ \ ->357 \ \ ->604 \ \ ->597 \ \ ->638 \ \ ->344 \ \ ->323 \ \ ->442 \ \ ->649 \ \ ->415 \ \ ->131 \ \ ->890 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->454 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->603 \ \ ->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 ->
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                                                                                               ->883 ->257 ->943 ->434 ->456 ->
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                                                                                                       ->600 ->986 ->800 ->700 ->
 87 \ 208 \ ->730 \ ->593 \ ->624 \ ->817 \ ->387 \ ->430 \ ->43 \ ->318 \ ->828 \ ->88 \ ->492 \ ->153 \ ->200 \ ->203 \ ->279
                                                                                                   ->385 ->775 ->710 ->301 ->
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                                                                                                         ->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 ->
                                 960 \ ->\! 28 \ ->\! 768 \ ->\! 392 \ ->\! 73 \ ->\! 641 \ ->\! 742 \ ->\! 568 \ ->\! 431 \ ->\! 803 \ ->\! 142 \ ->\! 180 \ ->\! 957 \ ->\! 229 \ ->\! 81 \ ->\! 973
                                                                                                   ->997 ->549 ->590 ->425 ->
91 \ 584 \ ->360 \ ->69 \ ->327 \ ->579 \ ->130 \ ->857 \ ->693 \ ->570 \ ->248 \ ->112 \ ->899 \ ->709 \ ->328 \ ->79 \ ->80
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->76 ->573 ->518 ->47 ->
           ->874 ->361 ->632 ->263 ->
                                         331 \ -> 136 \ -> 49 \ -> 801 \ -> 989 \ -> 920 \ -> 169 \ -> 305 \ -> 545 \ -> 687 \ -> 902 \ -> 888 \ -> 358 \ -> 144 \ -> 113 \ -> 906 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 113 \ -> 11
                                                                                                                 ->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 ->719 \quad ->539 \quad ->719 \quad ->7
                                                                                                     ->91 ->211 ->403 ->182 ->
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                                                                                                                   ->103 ->224 ->298 ->555 ->
         96\ 582\ ->837\ ->75\ ->642\ ->662\ ->748\ ->963\ ->671\ ->146\ ->675\ ->117\ ->631\ ->351\ ->59\ ->320\ ->780
                                                                                                   ->774 ->872 ->930 ->239 ->
         ->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 ->360 \quad ->980 \quad ->98
                                                                                                     ->20 ->213 ->517 ->673 ->
                                         37 \ -> 831 \ -> 308 \ -> 793 \ -> 529 \ -> 92 \ -> 924 \ -> 701 \ -> 128 \ -> 52 \ -> 732 \ -> 952 \ -> 535 \ -> 336 \ -> 940 \ -> 988 \ -> 940 \ -> 988 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 \ -> 940 
                                                                                                   ->32 ->587 ->261 ->563 ->
                                           151 \ ->643 \ ->45 \ ->119 \ ->882 \ ->497 \ ->630 \ ->451 \ ->572 \ ->192 \ ->830 \ ->628 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->143 \ ->214 \ ->57 \ ->546 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ ->143 \ -
                                                                                                   ->699 ->538 ->168 ->873 ->
                                         865 \ ->\! 40 \ ->\! 107 \ ->\! 89 \ ->\! 583 \ ->\! 284 \ ->\! 891 \ ->\! 946 \ ->\! 639 \ ->\! 134 \ ->\! 561 \ ->\! 885 \ ->\! 63 \ ->\! 751 \ ->\! 110 \ ->\! 27
                                                                                                 ->547 ->237 ->602 ->411 ->
 102 \ \ 102 \ \ ->278 \ \ ->812 \ \ ->676 \ \ ->70 \ \ ->31 \ \ ->861 \ \ ->191 \ \ ->531 \ \ ->556 \ \ ->620 \ \ ->721 \ \ ->44 \ \ ->164
                                                                                                           ->25 ->39 ->65 ->53 ->
 108 \ -> 588 \ -> 78 \ -> 233 \ -> 743 \ -> 719 \ -> 534 \ -> 33 \ -> 231 \ -> 516 \ -> 390 \ -> 528 \ -> 158 \ -> 825 \ -> 580 \ -> 786 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                       ->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 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->11 \ ->19 \ ->533 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ ->507 \ 
                                                                                                           ->750 ->195 ->696 ->690 ->
                                         525 \ \ ->16 \ \ ->29 \ \ ->55 \ \ ->17 \ \ ->179 \ \ ->77 \ \ ->562 \ \ ->929 \ \ ->297 \ \ ->949 \ \ ->514 \ \ ->51 \ \ ->232 \ \ ->86 \ \ ->3 \ \ ->8
                                                                                               ->26 ->515 ->553 ->
 106 \ 126 \ ->524 \ ->648 \ ->679 \ ->501 \ ->569 \ ->87 \ ->661 \ ->589 \ ->7 \ ->520 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->507 \ ->575 \ ->22 \ ->100 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->508 \ ->
                                                                                               ->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 \; -> 50
                                                                                         ->30 ->5 ->0 ->
108
109 Time: 34.8287891470827162
111 Length: 7088
112
113 \quad 2 \quad -> 210 \quad -> 471 \quad -> 688 \quad -> 846 \quad -> 476 \quad -> 159 \quad -> 636 \quad -> 886 \quad -> 482 \quad -> 484 \quad -> 957 \quad -> 383 \quad -> 715 \quad -> 386 \quad -> 919 \quad -> 118 \quad 
                                                                                               -{>}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 ->
                                         740 \;\; ->\! 868 \;\; ->\! 179 \;\; ->\! 924 \;\; ->\! 409 \;\; ->\! 234 \;\; ->\! 444 \;\; ->\! 971 \;\; ->\! 197 \;\; ->\! 645 \;\; ->\! 148 \;\; ->\! 247 \;\; ->\! 108 \;\; ->\! 711 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->\! 181 \;\; ->
                                                                                                         ->494 ->996 ->470 ->670 ->721 ->
                                         714 \ -> 725 \ -> 400 \ -> 914 \ -> 192 \ -> 898 \ -> 155 \ -> 416 \ -> 189 \ -> 883 \ -> 955 \ -> 224 \ -> 487 \ -> 644 \ -> 332 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                                   ->716 ->127 ->438 ->861 ->973 ->
                                             683 \ ->477 \ ->150 \ ->280 \ ->419 \ ->123 \ ->173 \ ->840 \ ->420 \ ->707 \ ->640 \ ->907 \ ->729 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->719 \ ->719 \ ->964 \ ->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 
                                                                                                   ->904 ->220 ->313 ->724 ->941 ->
                                         244 \ ->\! 418 \ ->\! 656 \ ->\! 427 \ ->\! 235 \ ->\! 980 \ ->\! 680 \ ->\! 341 \ ->\! 351 \ ->\! 947 \ ->\! 145 \ ->\! 139 \ ->\! 959 \ ->\! 460 \ ->\! 712
                                                                                                 ->163 ->480 ->363 ->248 ->916 ->
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                                        423 \ -> 110 \ -> 437 \ -> 398 \ -> 138 \ -> 186 \ -> 175 \ -> 620 \ -> 829 \ -> 657 \ -> 42 \ -> 744 \ -> 598 \ -> 198 \ -> 174 \ -> 338 \ -> 174 \ -> 338 \ -> 174 \ -> 186 \ -> 175 \ -> 186 \ -> 175 \ -> 186 \ -> 175 \ -> 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 \ -> 18
                                                                                                           ->876 ->374 ->616 ->537 ->
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                                                                                                         ->910 ->606 ->690 ->431 ->
 134 \ \ 387 \ \ ->948 \ \ ->121 \ \ ->424 \ \ ->347 \ \ ->587 \ \ ->475 \ \ ->943 \ \ ->307 \ \ ->626 \ \ ->384 \ \ ->749 \ \ ->940 \ \ ->850 \ \ ->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 \ \ ->1111 \ \ ->111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->1111 \ \ ->
                                                                                                  ->695 ->68 ->679 ->870 ->496 ->
                                      672 \; -> 237 \; -> 602 \; -> 415 \; -> 938 \; -> 832 \; -> 178 \; -> 601 \; -> 635 \; -> 162 \; -> 353 \; -> 391 \; -> 85 \; -> 376 \; -> 666 \; -> 375 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 162 \; -> 16
                                                                                                         ->166 ->466 ->191 ->977 ->
 136\ \ 208\ \ ->392\ \ ->888\ \ ->97\ \ ->884\ \ ->589\ \ ->136\ \ ->488\ \ ->395\ \ ->215\ \ ->995\ \ ->90\ \ ->342\ \ ->187\ \ ->340
                                                                                                       ->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 ->
   138 \ 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 \ -> 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 ->
                                      158 \ -{>}478 \ -{>}580 \ -{>}84 \ -{>}455 \ -{>}213 \ -{>}952 \ -{>}249 \ -{>}87 \ -{>}596 \ -{>}336 \ -{>}106 \ -{>}896 \ -{>}661 \ -{>}65 \ -{>}246 \ -{>}65 \ -{>}246 \ -{>}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 \
                                                                                            ->492 ->8 ->874 ->285 ->
                                        360 \; -> 348 \; -> 677 \; -> 681 \; -> 647 \; -> 430 \; -> 296 \; -> 201 \; -> 369 \; -> 851 \; -> 177 \; -> 316 \; -> 410 \; -> 565 \; -> 468 \; -> 410 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 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
                                                                                            ->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 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                              ->380 ->682 ->532 ->451 ->
143 \ \ 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 \ \ 
                                                                                                  ->824 ->613 ->827 ->436 ->
                                      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 \ ->836 \ -
                                                                                                  ->946 ->843 ->859 ->550 ->
 145 \ 156 \ -> 920 \ -> 564 \ -> 446 \ -> 997 \ -> 791 \ -> 624 \ -> 734 \ -> 308 \ -> 618 \ -> 169 \ -> 560 \ -> 490 \ -> 664 \ -> 233
                                                                                                  ->743 ->287 ->292 ->908 ->401 ->
                                      216 \ -> 114 \ -> 555 \ -> 857 \ -> 231 \ -> 889 \ -> 330 \ -> 676 \ -> 70 \ -> 329 \ -> 304 \ -> 146 \ -> 665 \ -> 604 \ -> 328 \ -> 595 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 676 \ -> 67
                                                                                                           ->828 ->66 ->561 ->872 ->
 147 \ 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 \ 
                                                                                                  ->796 ->584 ->131 ->291 ->
                                      633 \ -> 388 \ -> 238 \ -> 56 \ -> 61 \ -> 76 \ -> 547 \ -> 566 \ -> 795 \ -> 318 \ -> 873 \ -> 858 \ -> 279 \ -> 346 \ -> 323 \ -> 301
148
                                                                                                       ->141 ->286 ->92 ->96 ->
                                      334 \ -> 164 \ -> 765 \ -> 652 \ -> 833 \ -> 303 \ -> 783 \ -> 549 \ -> 590 \ -> 808 \ -> 689 \ -> 577 \ -> 91 \ -> 797 \ -> 86 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576 \ -> 576
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                                                                                            ->546 ->790 ->569 ->290 ->
                                                                          ->\!\!642 \ ->\!\!52 \ ->\!\!582 \ ->\!\!837 \ ->\!\!802 \ ->\!\!81 \ ->\!\!538 \ ->\!\!512 \ ->\!\!789 \ ->\!\!71 \ ->\!\!299 \ ->\!\!816 \ ->\!\!49 \ ->\!\!281 \ ->\!\!73
                                                                                                ->306 ->320 ->305 ->545 ->
                                      558 \ -{>}322 \ -{>}786 \ -{>}643 \ -{>}60 \ -{>}266 \ -{>}44 \ -{>}62 \ -{>}849 \ -{>}57 \ -{>}778 \ -{>}102 \ -{>}74 \ -{>}788 \ -{>}563 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>}126 \ -{>
                                                                                          ->811 ->912 ->608 ->807 ->
                                        891 \ -> 536 \ -> 302 \ -> 47 \ -> 399 \ -> 539 \ -> 324 \ -> 397 \ -> 544 \ -> 571 \ -> 625 \ -> 583 \ -> 343 \ -> 557 \ -> 88 \ -> 54
 153
                                                                                                  ->36 ->64 ->787 ->650 ->
                                      48 \ ->\! 821 \ ->\! 772 \ ->\! 282 \ ->\! 531 \ ->\! 295 \ ->\! 762 \ ->\! 553 \ ->\! 101 \ ->\! 777 \ ->\! 526 \ ->\! 271 \ ->\! 835 \ ->\! 575 \ ->\! 277 \ ->\! 38
                                                                                              ->655 ->31 ->23 ->516 ->
                                      793 \ ->\! 43 \ ->\! 274 \ ->\! 95 \ ->\! 319 \ ->\! 542 \ ->\! 270 \ ->\! 461 \ ->\! 554 \ ->\! 548 \ ->\! 58 \ ->\! 33 \ ->\! 39 \ ->\! 530 \ ->\! 761 \ ->\! 275
                                                                                                      ->568 ->579 ->325 ->298 ->
                                        29 \ -> 263 \ -> 792 \ -> 41 \ -> 37 \ -> 53 \ -> 518 \ -> 515 \ -> 130 \ -> 609 \ -> 521 \ -> 770 \ -> 18 \ -> 79 \ -> 315 \ -> 24 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ -> 784 \ ->
                                                                                                       ->819 ->276 ->83 ->
 157 \ 540 \ ->\! 524 \ ->\! 588 \ ->\! 803 \ ->\! 529 \ ->\! 265 \ ->\! 352 \ ->\! 262 \ ->\! 278 \ ->\! 520 \ ->\! 510 \ ->\! 766 \ ->\! 77 \ ->\! 562 \ ->\! 856 \ ->\! 769
                                                                                                         ->288 ->775 ->28 ->768 ->
                                      573 \ -> 779 \ -> 260 \ -> 764 \ -> 799 \ -> 46 \ -> 264 \ -> 753 \ -> 533 \ -> 551 \ -> 552 \ -> 758 \ -> 838 \ -> 16 \ -> 300 \ -> 272 \ -> 758 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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 ->
                                      35 \ -> 10 \ -> 25 \ -> 258 \ -> 269 \ -> 273 \ -> 534 \ -> 267 \ -> 543 \ -> 774 \ -> 34 \ -> 268 \ -> 750 \ -> 32 \ -> 773 \ -> 508
                                                                                              ->27 ->254 ->759 ->528 ->
                                      507 \; -> \\ 535 \; -> \\ 283 \; -> \\ 514 \; -> \\ 556 \; -> \\ 752 \; -> \\ 17 \; -> \\ 13 \; -> \\ 252 \; -> \\ 776 \; -> \\ 20 \; -> \\ 756 \; -> \\ 22 \; -> \\ 26 \; -> \\ 751 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259 \; -> \\ 259
                                                                                                      ->253 ->767 ->785 ->11 ->
 161 \ 19 \ -> 117 \ -> 527 \ -> 293 \ -> 522 \ -> 519 \ -> 504 \ -> 757 \ -> 763 \ -> 261 \ -> 59 \ -> 257 \ -> 513 \ -> 250 \ -> 523 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ -> 525 \ 
                                                                                     ->754 ->505 ->517 ->503 ->
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162 \ 14 \ ->\!30 \ ->\!251 \ ->\!255 \ ->\!256 \ ->\!502 \ ->\!506 \ ->\!509 \ ->\!12 \ ->\!5 \ ->\!6 \ ->\!9 \ ->\!4 \ ->\!511 \ ->\!500 \ ->\!501 \ ->\!0 \ ->\!7
                                                                             ->1 ->3 ->
163
 164 Time: 26.5923148076981306
165
166 Length: 8789
167
168 \ 4 \ -> 88 \ -> 962 \ -> 844 \ -> 491 \ -> 486 \ -> 854 \ -> 733 \ -> 236 \ -> 84 \ -> 309 \ -> 591 \ -> 873 \ -> 366 \ -> 961 \ -> 297 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ -> 873 \ ->
                                                                                     ->462 ->105 ->202 ->664 ->
 169\ \ 217\ \ ->725\ \ ->697\ \ ->610\ \ ->99\ \ ->572\ \ ->709\ \ ->956\ \ ->981\ \ ->62\ \ ->342\ \ ->103\ \ ->433\ \ ->373\ \ ->860\ \ ->424
                                                                                    ->843 ->597 ->566 ->990 ->
->192 ->812 ->350 ->720 ->
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                                                                                                 ->466 ->672 ->979 ->737 ->
                                   92 \ ->741 \ ->490 \ ->485 \ ->939 \ ->199 \ ->214 \ ->347 \ ->471 \ ->870 \ ->964 \ ->489 \ ->245 \ ->73 \ ->993 \ ->370
                                                                                     ->838 ->714 ->809 ->618 ->
                                     823 \ -> 937 \ -> 227 \ -> 944 \ -> 359 \ -> 343 \ -> 593 \ -> 89 \ -> 327 \ -> 727 \ -> 560 \ -> 358 \ -> 395 \ -> 564 \ -> 122 \ -> 976 \ -> 122 \ -> 120 \ -> 122 \ -> 120 \ -> 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 \ -> 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 ->
 ->162 ->711 ->842 ->186 ->
 176\ \ 104\ \ ->481\ \ ->493\ \ ->223\ \ ->622\ \ ->601\ \ ->317\ \ ->81\ \ ->48\ \ ->244\ \ ->991\ \ ->987\ \ ->724\ \ ->477\ \ ->861\ \ ->973\ \ ->724\ \ ->861\ \ ->973\ \ ->861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ ->9861\ \ -
                                                                                     ->46 ->728 ->958 ->556 ->
                                   998 \ -> 93 \ -> 852 \ -> 588 \ -> 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
                                                                                            ->230 ->59 ->77 ->698 ->
                                   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 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; 
                                                                                                ->334 ->484 ->957 ->871 ->
                                   924 \;\; ->374 \;\; ->187 \;\; ->194 \;\; ->935 \;\; ->620 \;\; ->449 \;\; ->225 \;\; ->715 \;\; ->988 \;\; ->989 \;\; ->464 \;\; ->570 \;\; ->943 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->746 \;\; ->7
                                                                                    ->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 ->
181 \quad 582 \quad ->592 \quad ->219 \quad ->603 \quad ->548 \quad ->605 \quad ->482 \quad ->468 \quad ->108 \quad ->495 \quad ->578 \quad ->67 \quad ->211 \quad ->707 \quad ->368 \quad ->948 \quad -
                                                                                                ->183 ->616 ->999 ->531 ->
->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 ->
 184\ \ 430\ \ ->460\ \ ->340\ \ ->614\ \ ->832\ \ ->863\ \ ->624\ \ ->859\ \ ->975\ \ ->678\ \ ->197\ \ ->585\ \ ->951\ \ ->241\ \ ->454
                                                                                         ->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
                                                                                    ->456 ->321 ->742 ->959 ->118 ->
                                   158 \; ->\! 866 \; ->\! 335 \; ->\! 671 \; ->\! 459 \; ->\! 316 \; ->\! 361 \; ->\! 80 \; ->\! 76 \; ->\! 483 \; ->\! 372 \; ->\! 541 \; ->\! 448 \; ->\! 346 \; ->\! 473 \; ->\! 401 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; ->\! 473 \; 
                                                                                            ->865 ->831 ->441 ->356 ->
                                   409 \; -> 314 \; -> 443 \; -> 919 \; -> 559 \; -> 86 \; -> 209 \; -> 333 \; -> 713 \; -> 57 \; -> 732 \; -> 675 \; -> 467 \; -> 558 \; -> 360 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743 \; -> 743
                                                                                    ->598 ->451 ->968 ->436 ->
 189\ 547\ ->243\ ->797\ ->933\ ->719\ ->97\ ->291\ ->330\ ->205\ ->229\ ->435\ ->801\ ->602\ ->822\ ->997\ ->24
                                                                                    ->577 ->318 ->819 ->280 ->
                                   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 \ -> 190 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                              ->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 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                     ->275 ->352 ->907 ->579 ->
 194 \ 176 \ ->583 \ ->518 \ ->369 \ ->165 \ ->242 \ ->25 \ ->524 \ ->546 \ ->790 \ ->290 \ ->904 \ ->353 \ ->61 \ ->744 \ ->324 \ ->324 \ ->546 \ ->790 \ ->290 \ ->904 \ ->353 \ ->61 \ ->744 \ ->324 \ ->324 \ ->546 \ ->790 \ ->904 \ ->353 \ ->61 \ ->744 \ ->324 \ ->324 \ ->546 \ ->790 \ ->904 \ ->353 \ ->61 \ ->744 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324 \ ->324
                                                                                           ->702 ->888 ->488 ->313 ->
                                   36 \ -> 667 \ -> 810 \ -> 303 \ -> 955 \ -> 64 \ -> 173 \ -> 98 \ -> 107 \ -> 311 \ -> 391 \ -> 619 \ -> 543 \ -> 538 \ -> 168 \ -> 845 \ -> 168 \ -> 845 \ -> 168 \ -> 845 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 \ -> 168 
                                                                                         ->177 ->50 ->149 ->367 ->
                                   686 \ ->\! 281 \ ->\! 916 \ ->\! 900 \ ->\! 815 \ ->\! 774 \ ->\! 833 \ ->\! 952 \ ->\! 203 \ ->\! 47 \ ->\! 87 \ ->\! 216 \ ->\! 114 \ ->\! 677 \ ->\! 893 \ ->\! 996
                                                                                    ->953 ->63 ->914 ->465 ->
                                      739 \ -> 299 \ -> 39 \ -> 44 \ -> 587 \ -> 300 \ -> 145 \ -> 139 \ -> 565 \ -> 83 \ -> 580 \ -> 21 \ -> 674 \ -> 35 \ -> 181 \ -> 856 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ -> 181 \ 
                                                                                           ->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 \ \ -> 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 \ \ -> 185 \ \ -> 18
                                                                                                                                                  ->551 ->450 ->910 ->398 ->
                                                     138 \ -> 402 \ -> 157 \ -> 201 \ -> 781 \ -> 428 \ -> 891 \ -> 536 \ -> 302 \ -> 950 \ -> 400 \ -> 557 \ -> 320 \ -> 319 \ -> 539
                                                                                                                                   ->925 ->782 ->717 ->646 ->915 ->
                                                       663 \; -\! >\! 37 \; -\! >\! 965 \; -\! >\! 55 \; -\! >\! 166 \; -\! >\! 167 \; -\! >\! 307 \; -\! >\! 277 \; -\! >\! 920 \; -\! >\! 306 \; -\! >\! 418 \; -\! >\! 785 \; -\! >\! 654 \; -\! >\! 146 \; -\! >\! 208 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! >\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; -\! 392 \; 
                                                                                                                                ->452 ->312 ->922 ->30 ->
                                                     131 \ -> 553 \ -> 406 \ -> 434 \ -> 182 \ -> 408 \ -> 49 \ -> 175 \ -> 388 \ -> 163 \ -> 805 \ -> 140 \ -> 527 \ -> 78 \ -> 315 \ -> 892 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160 \ -> 160
202
                                                                                                                                        ->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
203
                                                                                                                                          ->651 ->660 ->530 ->643 ->
204 \quad 152 \quad ->458 \quad ->517 \quad ->773 \quad ->170 \quad ->662 \quad ->295 \quad ->802 \quad ->18 \quad ->68 \quad ->151 \quad ->862 \quad ->28 \quad ->20 \quad ->640 \quad ->58 \quad ->100 \quad ->58 \quad ->100 
                                                                                                                                             ->947 ->533 ->513 ->153 ->
205 \quad 766 \quad ->416 \quad ->102 \quad ->668 \quad ->537 \quad ->639 \quad ->393 \quad ->512 \quad ->839 \quad ->787 \quad ->650 \quad ->415 \quad ->796 \quad ->599 \quad ->362 \quad 
                                                                                                                                     ->906 ->930 ->43 ->687 ->276 ->
206 \ 913 \ ->908 \ ->929 \ ->135 \ ->807 \ ->13 \ ->172 \ ->772 \ ->137 \ ->215 \ ->410 \ ->762 \ ->272 \ ->682 \ ->642 \ ->404 \ ->762 \ ->762 \ ->7682 \ ->642 \ ->404 \ ->762 \ ->7682 \ ->642 \ ->404 \ ->762 \ ->7682 \ ->642 \ ->404 \ ->762 \ ->7682 \ ->642 \ ->404 \ ->762 \ ->7682 \ ->642 \ ->404 \ ->762 \ ->7682 \ ->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 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->642 \ ->6
                                                                                                                                          ->886 ->288 ->478 ->911 ->
                                                       811 \ -> 895 \ -> 53 \ -> 148 \ -> 765 \ -> 550 \ -> 523 \ -> 791 \ -> 526 \ -> 941 \ -> 569 \ -> 136 \ -> 630 \ -> 310 \ -> 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
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                                               142 \ -> 794 \ -> 256 \ -> 282 \ -> 656 \ -> 426 \ -> 382 \ -> 287 \ -> 931 \ -> 387 \ -> 545 \ -> 693 \ -> 768 \ -> 670 \ -> 890
                                                                                                                           ->887 ->631 ->917 ->647 ->11 ->
                                                     645 \ -> 912 \ -> 378 \ -> 637 \ -> 813 \ -> 150 \ -> 894 \ -> 519 \ -> 130 \ -> 609 \ -> 514 \ -> 27 \ -> 784 \ -> 884 \ -> 858 \ -> 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 \ -> 10
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211 \ 75 \ -> 156 \ -> 414 \ -> 776 \ -> 141 \ -> 260 \ -> 296 \ -> 143 \ -> 257 \ -> 878 \ -> 379 \ -> 19 \ -> 897 \ -> 879 \ -> 881 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ -> 899 \ 
                                                                                                                                        ->298 ->132 ->902 ->425 ->
                                                     882 \; -> \\ 380 \; -> \\ 385 \; -> \\ 285 \; -> \\ 635 \; -> \\ 383 \; -> \\ 528 \; -> \\ 125 \; -> \\ 384 \; -> \\ 627 \; -> \\ 788 \; -> \\ 516 \; -> \\ 509 \; -> \\ 154 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> \\ 918 \; -> 
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213 \ \ 759 \ \ ->308 \ \ ->7 \ \ ->769 \ \ ->270 \ \ ->10 \ \ ->504 \ \ ->266 \ \ ->8 \ \ ->756 \ \ ->508 \ \ ->42 \ \ ->764 \ \ ->377 \ \ ->195 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->818 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->817 \ \ ->81
                                                                                                                              ->771 ->511 ->753 ->254 ->
                                                     29 \ -> 16 \ -> 66 \ -> 633 \ -> 783 \ -> 128 \ -> 294 \ -> 799 \ -> 795 \ -> 22 \ -> 444 \ -> 625 \ -> 775 \ -> 889 \ -> 786 \ -> 522 \ -> 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 \ -> 128 \ -> 128 \ -> 128 \ -> 128 \ -> 128 \ -> 128 \ -> 128 \
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                                                                                                                                               ->876 ->880 ->552 ->
                                                     638 \ ->274 \ ->770 \ ->269 \ ->502 \ ->510 \ ->503 \ ->506 \ ->271 \ ->632 \ ->758 \ ->780 \ ->877 \ ->629 \ ->259 \ ->45 \ ->780 \ ->877 \ ->629 \ ->259 \ ->45 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ ->880 \ 
                                                                                                                                                     ->261 ->9 ->760 ->626 ->
                                                     649 \ -> 754 \ -> 505 \ -> 535 \ -> 253 \ -> 0 \ -> 264 \ -> 3 \ -> 752 \ -> 5 \ -> 750 \ -> 751 \ -> 258 \ -> 15 \ -> 1 \ -> 252 \ -> 251 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 252 \ -> 251 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 1 \ -> 
                                                                                                                              ->250 ->500 ->501 ->
218 4 ->
219 Time: 25.9395619044080377
```

#### 4 Iteration

1 Length: 5659 31 -> 265 -> 148 -> 843 -> 966 -> 718 -> 535 -> 336 -> 776 -> 472 -> 208 -> 827 -> 151 -> 31 -> 916 -> 197 -> 19->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 ->  $54 \ ->\! 243 \ ->\! 994 \ ->\! 325 \ ->\! 282 \ ->\! 689 \ ->\! 254 \ ->\! 738 \ ->\! 366 \ ->\! 166 \ ->\! 161 \ ->\! 711 \ ->\! 593 \ ->\! 89 \ ->\! 717 \ ->\! 899$ ->302 ->534 ->855 ->938 -> ->809 ->25 ->736 ->676 ->  $387 \ -> 948 \ -> 700 \ -> 260 \ -> 389 \ -> 989 \ -> 920 \ -> 223 \ -> 435 \ -> 437 \ -> 408 \ -> 457 \ -> 412 \ -> 658 \ -> 913$ ->162 ->353 ->816 ->540 ->346 -> ->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 ->  $632 \ -> 621 \ -> 431 \ -> 497 \ -> 115 \ -> 0 \ -> 73 \ -> 840 \ -> 420 \ -> 69 \ -> 157 \ -> 6 \ -> 281 \ -> 555 \ -> 898 \ -> 549 \ -> 100 \ -$ ->817 ->794 ->884 ->999 ->  $860 \ ->\! 245 \ ->\! 894 \ ->\! 712 \ ->\! 591 \ ->\! 703 \ ->\! 360 \ ->\! 780 \ ->\! 767 \ ->\! 153 \ ->\! 781 \ ->\! 428 \ ->\! 459 \ ->\! 122 \ ->\! 173$ ->951 ->227 ->753 ->221 ->692 ->  $142 \ ->272 \ ->8 \ ->988 \ ->959 \ ->460 \ ->554 \ ->836 \ ->983 \ ->618 \ ->326 \ ->246 \ ->198 \ ->634 \ ->887 \ ->262 \ ->262 \ ->246 \ ->198 \ ->634 \ ->887 \ ->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 \$ ->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 ->
 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 ->941 \quad ->941
                                                                                                ->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 \ -> 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 \ ->\! 61
                                                                                       ->586 ->806 ->363 ->284 ->
                              204 -> 93 -> 140 -> 775 -> 685 -> 942 -> 375 -> 550 -> 523 -> 847 -> 954 -> 176 -> 160 -> 953 -> 125 -> 504 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 160 -> 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 ->
 22 \quad 740 \quad ->852 \quad ->802 \quad ->400 \quad ->314 \quad ->211 \quad ->172 \quad ->968 \quad ->965 \quad ->955 \quad ->770 \quad ->392 \quad ->967 \quad ->828 \quad ->287 \quad -
                                                                                                  ->761 ->141 ->465 ->958 ->897 ->
 23\ 888\ ->566\ ->361\ ->80\ ->165\ ->21\ ->587\ ->548\ ->605\ ->659\ ->808\ ->739\ ->964\ ->719\ ->841\ ->311
                                                                                         ->752 ->571 ->625 ->969 ->
 24 \quad 835 \quad -> 793 \quad -> 404 \quad -> 380 \quad -> 324 \quad -> 672 \quad -> 68 \quad -> 669 \quad -> 594 \quad -> 33 \quad -> 350 \quad -> 330 \quad -> 48 \quad -> 261 \quad -> 568 \quad -> 892 \quad -> 680 \quad ->
                                                                                         ->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 ->
                              933 \ ->\! 200 \ ->\! 522 \ ->\! 118 \ ->\! 310 \ ->\! 94 \ ->\! 333 \ ->\! 406 \ ->\! 921 \ ->\! 960 \ ->\! 995 \ ->\! 757 \ ->\! 939 \ ->\! 143 \ ->\! 401 \ ->\! 508 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \
                                                                                                    ->693 ->475 ->443 ->512 ->
 29 \ 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 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100 \; -> 100
                                                                                         ->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
                                                                                       ->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 ->
 35 \ 434 \ -> 268 \ -> 448 \ -> 334 \ -> 745 \ -> 205 \ -> 864 \ -> 754 \ -> 725 \ -> 296 \ -> 940 \ -> 518 \ -> 515 \ -> 86 \ -> 684 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ -> 848 \ 
                                                                                                    ->698 ->546 ->980 ->796 ->
                              565 \ ->991 \ ->256 \ ->338 \ ->181 \ ->823 \ ->377 \ ->403 \ ->750 \ ->928 \ ->418 \ ->74 \ ->882 \ ->479 \ ->879
                                                                                         ->667 ->378 ->944 ->805 ->
                                  773 \ -> 726 \ -> 839 \ -> 961 \ -> 715 \ -> 386 \ -> 470 \ -> 670 \ -> 721 \ -> 355 \ -> 18 \ -> 283 \ -> 514 \ -> 52 \ -> 357 \ -> 604 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                            ->424 ->539 ->354 ->831 ->
                                  901 \;\; ->\!356 \;\; ->\!547 \;\; ->\!327 \;\; ->\!727 \;\; ->\!560 \;\; ->\!652 \;\; ->\!974 \;\; ->\!588 \;\; ->\!67 \;\; ->\!394 \;\; ->\!81 \;\; ->\!234 \;\; ->\!58 \;\; ->\!856 \;\; ->\!78
                                                                                       ->651 ->484 ->957 ->66 ->
                                286 \ -> 863 \ -> 399 \ -> 498 \ -> 4 \ -> 226 \ -> 348 \ -> 96 \ -> 743 \ -> 578 \ -> 981 \ -> 865 \ -> 510 \ -> 232 \ -> 962 \ -> 212 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 
                                                                                                ->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 \ 
                                                                                              ->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 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 
                                                                                         ->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
                                                                                         ->590 ->635 ->926 ->239 ->
                              691 \ ->742 \ ->32 \ ->653 \ ->544 \ ->19 \ ->42 \ ->905 \ ->16 \ ->29 \ ->538 \ ->985 \ ->982 \ ->903 \ ->188 \ ->819 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->982 \ ->9
                                                                                              ->126 ->488 ->395 ->215 ->
 47 \ 567 \ ->331 \ ->136 \ ->503 \ ->231 \ ->101 \ ->45 \ ->39 \ ->121 \ ->627 \ ->650 \ ->416 \ ->746 \ ->76 \ ->483 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->543 \ ->54
                                                                           ->519 ->224 ->298 ->64 ->
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48\ 12\ ->606\ ->690\ ->930\ ->613\ ->216\ ->242\ ->674\ ->501\ ->71\ ->527\ ->858\ ->279\ ->169\ ->305\ ->988
                                                                                    ->367 ->701 ->749 ->633 ->
 ->890 ->788 ->987 ->273 ->577 ->
                             992 -> 873 -> 521 -> 642 -> 277 -> 38 -> 163 -> 275 -> 682 -> 50 -> 149 -> 390 -> 774 -> 851 -> 551 -> 323 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 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
                                                                                        ->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 \ -> 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 ->
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54 Time: 105.5457831178791821
56 Length: 6072
57
 58\ 0\ -> 582\ -> 923\ -> 713\ -> 230\ -> 760\ -> 944\ -> 805\ -> 802\ -> 761\ -> 141\ -> 465\ -> 958\ -> 223\ -> 377\ -> 881
                                                                                    ->234 ->444 ->971 ->826 ->
                               830 \; ->\! 673 \; ->\! 327 \; ->\! 954 \; ->\! 429 \; ->\! 986 \; ->\! 332 \; ->\! 716 \; ->\! 897 \; ->\! 441 \; ->\! 28 \; ->\! 768 \; ->\! 392 \; ->\! 967 \; ->\! 367 \; ->\! 704 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 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 \; ->\! 100000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; ->\! 10000 \; 
                                                                                                 ->474 ->319 ->708 ->959 ->
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                                                                                                ->797 ->411 ->322 ->894 ->
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                                                                                                 ->84 ->912 ->378 ->561 ->
                               721 \ -{>}315 \ -{>}116 \ -{>}420 \ -{>}627 \ -{>}427 \ -{>}752 \ -{>}571 \ -{>}769 \ -{>}702 \ -{>}668 \ -{>}479 \ -{>}875 \ -{>}996 \ -{>}849 \ -{>}849 \ -{>}875 \ -{>}986 \ -{>}849 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 \ -{>}889 
                                                                                        ->977 ->145 ->265 ->148 ->466 ->
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                                                                                    ->925 ->132 ->864 ->290 ->397 ->
                             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 \ -> 914 \ -> 807 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 185 \ -> 1
                                                                                            ->463 ->317 ->255 ->711 ->727 ->
                             418 \ -> 656 \ -> 124 \ -> 684 \ -> 337 \ -> 243 \ -> 994 \ -> 325 \ -> 670 \ -> 484 \ -> 957 \ -> 66 \ -> 490 \ -> 491 \ -> 783 \ -> 654 \ -> 660 \ -> 490 \ -> 491 \ -> 783 \ -> 684 \ -> 980 \ -> 484 \ -> 980 \ -> 484 \ -> 980 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 480 \ -> 48
                                                                                                ->335 ->389 ->161 ->889 ->
 ->41 ->369 ->206 ->462 ->
 71 \quad 221 \quad ->455 \quad ->803 \quad ->175 \quad ->834 \quad ->878 \quad ->344 \quad ->44 \quad ->655 \quad ->348 \quad ->677 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->458 \quad ->318 \quad ->968 \quad ->267 \quad ->276 \quad ->476 \quad ->
                                                                                                ->873 ->915 ->846 ->282 ->
 72\ 341\ ->777\ ->843\ ->340\ ->809\ ->710\ ->301\ ->459\ ->970\ ->390\ ->400\ ->725\ ->766\ ->163\ ->903
                                                                                    ->300 ->114 ->841 ->304 ->63 ->
                             229 \ -> 361 \ -> 773 \ -> 168 \ -> 845 \ -> 839 \ -> 961 \ -> 715 \ -> 948 \ -> 493 \ -> 193 \ -> 78 \ -> 998 \ -> 350 \ -> 840 \ -> 492 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 193 \ -> 19
                                                                                                   ->509 ->478 ->657 ->46 ->
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                                                                                    ->817 ->387 ->470 ->199 ->
 75 \quad 214 \quad ->347 \quad ->244 \quad ->370 \quad ->252 \quad ->882 \quad ->159 \quad ->844 \quad ->356 \quad ->621 \quad ->431 \quad ->931 \quad ->876 \quad ->374 \quad ->494 \quad ->876 \quad ->882 \quad ->882 \quad ->159 \quad ->882 \quad -
                                                                                        ->922 ->868 ->179 ->176 ->160 ->
                               953 \ -{>}497 \ -{>}853 \ -{>}274 \ -{>}366 \ -{>}987 \ -{>}273 \ -{>}554 \ -{>}919 \ -{>}595 \ -{>}261 \ -{>}563 \ -{>}600 \ -{>}396 \ -{>}428 \ -{>}600 \ -{>}396 \ -{>}428 \ -{>}600 \ -{>}396 \ -{>}428 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 \ -{>}600 
                                                                                    ->940 ->140 ->880 ->774 ->373 ->
                               256 \ -> 222 \ -> 778 \ -> 910 \ -> 714 \ -> 375 \ -> 166 \ -> 326 \ -> 246 \ -> 349 \ -> 136 \ -> 488 \ -> 395 \ -> 780 \ -> 481 \ -> 395 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                   ->745 ->945 ->759 ->303 ->368 ->
                               530 -> 812 -> 792 -> 157 -> 932 -> 798 -> 859 -> 975 -> 383 -> 993 -> 556 -> 260 -> 224 -> 121 -> 740
                                                                                          ->852 ->618 ->264 ->363 ->248 ->
                               682 \; -> \\ 31 \; -> \\ 354 \; -> \\ 495 \; -> \\ 578 \; -> \\ 981 \; -> \\ 884 \; -> \\ 101 \; -> \\ 286 \; -> \\ 92 \; -> \\ 610 \; -> \\ 135 \; -> \\ 425 \; -> \\ 648 \; -> \\ 646 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 756 \; -> \\ 
                                                                                        ->564 ->104 ->687 ->902 ->
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                                                                                            ->108 ->850 ->947 ->867 ->676 ->
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                                                                                        ->748 ->963 ->25 ->285 ->842 ->
 84 \quad 67 \quad -> 666 \quad -> 533 \quad -> 572 \quad -> 442 \quad -> 486 \quad -> 653 \quad -> 40 \quad -> 816 \quad -> 183 \quad -> 824 \quad -> 109 \quad -> 833 \quad -> 171 \quad -> 292 \quad -> 309 \quad -> 100 \quad -
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->472 ->208 ->538 ->247 ->
         85 \ 343 \ -> 737 \ -> 269 \ -> 568 \ -> 856 \ -> 705 \ -> 125 \ -> 37 \ -> 615 \ -> 107 \ -> 155 \ -> 56 \ -> 695 \ -> 680 \ -> 820 \ -> 316
                                                                                   ->870 ->821 ->164 ->278 ->
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                                                                                      ->604 ->597 ->989 ->920 ->60 ->
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                                  900 \;\; ->\!559 \;\; ->\!784 \;\; ->\!548 \;\; ->\!133 \;\; ->\!406 \;\; ->\!921 \;\; ->\!446 \;\; ->\!385 \;\; ->\!143 \;\; ->\!142 \;\; ->\!794 \;\; ->\!645 \;\; ->\!433 \;\; ->\!619 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 \;\; ->\!645 
                                                                             ->541 ->127 ->640 ->601 ->734 ->
                                308 \ -> 50 \ -> 149 \ -> 65 \ -> 865 \ -> 69 \ -> 857 \ -> 693 \ -> 891 \ -> 380 \ -> 692 \ -> 100 \ -> 87 \ -> 351 \ -> 664 \ -> 480 \ -> 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 \
                                                                                     ->785 ->575 ->22 ->259 ->
                                707 \; ->\! 81 \; ->\! 701 \; ->\! 926 \; ->\! 988 \; ->\! 871 \; ->\! 822 \; ->\! 732 \; ->\! 196 \; ->\! 540 \; ->\! 83 \; ->\! 574 \; ->\! 942 \; ->\! 207 \; ->\! 743 \; ->\! 626
                                                                                  ->169 ->469 ->376 ->74 ->
                                811 \;\; -> 869 \;\; -> 724 \;\; -> 796 \;\; -> 606 \;\; -> 786 \;\; -> 709 \;\; -> 328 \;\; -> 663 \;\; -> 883 \;\; -> 257 \;\; -> 609 \;\; -> 53 \;\; -> 242 \;\; -> 90 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\; -> 129 \;\;
                                                                                   ->614 ->456 ->64 ->284 ->
                                  61 \ -> 76 \ -> 573 \ -> 518 \ -> 47 \ -> 399 \ -> 754 \ -> 758 \ -> 499 \ -> 649 \ -> 372 \ -> 86 \ -> 781 \ -> 235 \ -> 288 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \ -> 298 \
                                                                                  ->598 ->722 ->126 ->851 ->
       99 \ \ 410 \ \ ->592 \ \ ->191 \ \ ->531 \ \ ->625 \ \ ->746 \ \ ->679 \ \ ->553 \ \ ->158 \ \ ->432 \ \ ->515 \ \ ->542 \ \ ->879 \ \ ->815 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->118 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \ ->938 \ \
                                                                                     ->386 ->115 ->181 ->823 ->
                                95 \ -> 831 \ -> 508 \ -> 182 \ -> 788 \ -> 117 \ -> 228 \ -> 68 \ -> 723 \ -> 146 \ -> 675 \ -> 51 \ -> 612 \ -> 590 \ -> 570 \ -> 825 \ -> 680 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 
                                                                                ->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 ->
                                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 \ ->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 \ ->3
                                                                                ->190 ->521 ->233 ->511 ->
 104 \ 952 \ -> 313 \ -> 134 \ -> 26 \ -> 638 \ -> 651 \ -> 623 \ -> 503 \ -> 579 \ -> 15 \ -> 997 \ -> 43 \ -> 23 \ -> 323 \ -> 661 \ -> 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 \ -> 
                                                                                  ->128 ->52 ->16 ->543 ->
                                519 \ -> 558 \ -> 59 \ -> 122 \ -> 731 \ -> 45 \ -> 750 \ -> 6 \ -> 569 \ -> 194 \ -> 75 \ -> 537 \ -> 30 \ -> 534 \ -> 33 \ -> 557 \ -> 29
                                                                             ->516 ->58 ->577 ->
                                644 \ -> 102 \ -> 99 \ -> 588 \ -> 527 \ -> 38 \ -> 13 \ -> 3 \ -> 8 \ -> 566 \ -> 57 \ -> 510 \ -> 7 \ -> 529 \ -> 622 \ -> 118 \ -> 528 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 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
                                                                            ->524 ->526 ->10 ->
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111 Length: 6970
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121 \ \ 412 \ \ ->973 \ \ ->683 \ \ ->286 \ \ ->240 \ \ ->439 \ \ ->227 \ \ ->154 \ \ ->960 \ \ ->681 \ \ ->209 \ \ ->703 \ \ ->951 \ \ ->705 \ \ ->405 \ \ ->405 \ \ ->681 \ \ ->209 \ \ ->705 \ \ ->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 \ 
                                                                                              ->247 ->468 ->618 ->940 ->429 ->
 122 \ 187 \ ->\! 206 \ ->\! 462 \ ->\! 221 \ ->\! 230 \ ->\! 706 \ ->\! 990 \ ->\! 450 \ ->\! 956 \ ->\! 495 \ ->\! 438 \ ->\! 861 \ ->\! 437 \ ->\! 181 \ ->\! 649
                                                                                                            ->184 ->918 ->607 ->641 ->742 ->
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                                                                                                              ->882 ->159 ->636 ->886 ->
                                        404 -> 689 -> 134 -> 893 -> 684 -> 623 -> 467 -> 910 -> 901 -> 448 -> 175 -> 692 -> 142 -> 969 -> 417
                                                                                                              ->144 ->984 ->180 ->889 ->330 ->
                                        667 \; -> 905 \; -> 941 \; -> 954 \; -> 938 \; -> 151 \; -> 465 \; -> 719 \; -> 97 \; -> 378 \; -> 944 \; -> 157 \; -> 659 \; -> 83 \; -> 473 \; -> 581 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 1000 \; -> 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 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 10000 \; -> 100
                                                                                                ->150 ->540 ->165 ->921 ->
                                        446 \ \ -> 233 \ \ -> 909 \ \ -> 661 \ \ -> 129 \ \ -> 614 \ \ -> 456 \ \ -> 321 \ \ -> 189 \ \ -> 939 \ \ -> 907 \ \ -> 669 \ \ -> 620 \ \ -> 935 \ \ -> 713
                                                                                                ->863 ->196 ->950 ->235 ->487 ->
                                          735 \ ->\! 58 \ ->\! 856 \ ->\! 679 \ ->\! 847 \ ->\! 916 \ ->\! 217 \ ->\! 931 \ ->\! 876 \ ->\! 704 \ ->\! 174 \ ->\! 299 \ ->\! 701 \ ->\! 120 \ ->\! 991 \ ->\! 638 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 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 \ -> 424 \ -> 454 \ -> 603 \ -> 333 \ -> 926 \ -> 866
                                                                                                              ->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
                                                                                                      ->215 ->995 ->311 ->110 ->631 ->
 136\ 800\ -> 700\ -> 524\ -> 398\ -> 726\ -> 839\ -> 961\ -> 326\ -> 246\ -> 198\ -> 634\ -> 887\ -> 904\ -> 109\ -> 562
                                                                                                      ->929 ->172 ->499 ->616 ->533 ->
                                        572 \ -> 406 \ -> 410 \ -> 375 \ -> 875 \ -> 70 \ -> 593 \ -> 624 \ -> 896 \ -> 458 \ -> 558 \ -> 112 \ -> 892 \ -> 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 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 65
                                                                                                              ->983 ->609 ->249 ->382 ->
                                        428 \ ->\! 68 \ ->\! 988 \ ->\! 927 \ ->\! 451 \ ->\! 617 \ ->\! 819 \ ->\! 853 \ ->\! 122 \ ->\! 297 \ ->\! 545 \ ->\! 687 \ ->\! 644 \ ->\! 332 \ ->\! 183 \ ->\! 424
                                                                                                              ->108 ->420 ->358 ->823 ->
                                          95 \ -> 597 \ -> 566 \ -> 848 \ -> 89 \ -> 583 \ -> 153 \ -> 200 \ -> 900 \ -> 844 \ -> 387 \ -> 430 \ -> 296 \ -> 201 \ -> 306 \ -> 584 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                        ->168 ->610 ->586 ->362 ->
 140 \ \ 415 \ \ ->41 \ \ ->621 \ \ ->431 \ \ ->622 \ \ ->601 \ \ ->635 \ \ ->852 \ \ ->588 \ \ ->370 \ \ ->125 \ \ ->829 \ \ ->411 \ \ ->131 \ \ ->359 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \ ->702 \ \
                                                                                                              ->423 ->114 ->119 ->985 ->
141 \ \ 357 \ \ -> 604 \ \ -> 643 \ \ -> 317 \ \ -> 81 \ \ -> 371 \ \ -> 648 \ \ -> 646 \ \ -> 365 \ \ -> 696 \ \ -> 690 \ \ -> 400 \ \ -> 845 \ \ -> 947 \ \ -> 146 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 301 \ \ -> 30
                                                                                                                  ->630 ->846 ->855 ->809 ->
 142 \ 834 \ -> 313 \ -> 851 \ -> 668 \ -> 964 \ -> 339 \ -> 380 \ -> 682 \ -> 31 \ -> 107 \ -> 91 \ -> 72 \ -> 309 \ -> 179 \ -> 176 \ -> 366 \ -> 179 \ -> 176 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -> 170 \ -
                                                                                                        ->274 ->35 ->877 ->591 ->
 143 \quad 836 \quad -> 850 \quad -> 158 \quad -> 396 \quad -> 132 \quad -> 85 \quad -> 130 \quad -> 598 \quad -> 945 \quad -> 543 \quad -> 611 \quad -> 156 \quad -> 369 \quad -> 832 \quad -> 595 \quad -> 830 \quad -> 830 \quad -> 100 \quad
                                                                                                              ->673 ->965 ->55 ->434 ->
                                          113 \ -> 749 \ -> 600 \ -> 44 \ -> 390 \ -> 555 \ -> 898 \ -> 801 \ -> 585 \ -> 599 \ -> 345 \ -> 52 \ -> 582 \ -> 626 \ -> 169 \ -> 93
                                                                                                  ->64 ->569 ->84 ->104 ->
 145 \ \ 872 \ \ -> 329 \ \ -> 98 \ \ -> 902 \ \ -> 62 \ \ -> 849 \ \ -> 813 \ \ -> 310 \ \ -> 674 \ \ -> 592 \ \ -> 74 \ \ -> 811 \ \ -> 869 \ \ -> 654 \ \ -> 576 \ \ -> 760 \ \ -> 760 \ \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 760 \ \ -> 76
                                                                                                ->908 ->76 ->573 ->677 ->
 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 ->
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                                                                                                        ->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 ->
                                        862 \ -> 771 \ -> 347 \ -> 842 \ -> 298 \ -> 29 \ -> 538 \ -> 23 \ -> 331 \ -> 289 \ -> 335 \ -> 389 \ -> 118 \ -> 590 \ -> 553 \ -> 139 \ -> 139 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120 \ -> 120
                                                                                                  ->565 ->343 ->320 ->128 ->
                                          293 \; ->\! 841 \; ->\! 843 \; ->\! 242 \; ->\! 316 \; ->\! 341 \; ->\! 386 \; ->\! 812 \; ->\! 355 \; ->\! 302 \; ->\! 56 \; ->\! 364 \; ->\! 520 \; ->\! 82 \; ->\! 22 \; ->\! 793 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 1000 \; ->\! 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 \; ->
                                                                                                  ->879 ->69 ->747 ->280 ->
                                        65 \ -> 805 \ -> 802 \ -> 761 \ -> 544 \ -> 551 \ -> 552 \ -> 536 \ -> 269 \ -> 568 \ -> 567 \ -> 794 \ -> 782 \ -> 325 \ -> 30 \ -> 770
                                                                                                  ->57 ->38 ->655 ->323 ->
153 \ 784 \ -> 548 \ -> 305 \ -> 556 \ -> 619 \ -> 312 \ -> 138 \ -> 63 \ -> 783 \ -> 779 \ -> 808 \ -> 231 \ -> 307 \ -> 539 \ -> 837 \ -> 865 \ -> 800 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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 ->
 154 \ 577 \ -> 360 \ -> 328 \ -> 304 \ -> 94 \ -> 124 \ -> 279 \ -> 827 \ -> 530 \ -> 777 \ -> 526 \ -> 490 \ -> 807 \ -> 518 \ -> 36 \ -> 542 \ -> 526 \ -> 490 \ -> 807 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ -> 180 \ 
                                                                                   ->773 ->508 ->546 ->284 ->
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155 \ \ 308 \ \ ->291 \ \ ->103 \ \ ->300 \ \ ->18 \ \ ->54 \ \ ->799 \ \ ->825 \ \ ->797 \ \ ->858 \ \ ->16 \ \ ->791 \ \ ->608 \ \ ->796 \ \ ->557 \ \ ->88
                                                                                  ->532 ->814 ->314 ->13 ->
 156 \ \ 275 \ \ -> 66 \ \ -> 895 \ \ -> 53 \ \ -> 767 \ \ -> 803 \ \ -> 42 \ \ -> 580 \ \ -> 21 \ \ -> 290 \ \ -> 795 \ \ -> 40 \ \ -> 774 \ \ -> 780 \ \ -> 17 \ \ -> 336 \ \ -> 17 \ \ -> 336 \ \ -> 17 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -> 180 \ \ -
                                                                                            ->776 ->256 ->271 ->192 ->
                                   33 \ -> 775 \ -> 283 \ -> 756 \ -> 828 \ -> 287 \ -> 292 \ -> 43 \ -> 14 \ -> 34 \ -> 268 \ -> 6 \ -> 281 \ -> 263 \ -> 763 \ -> 24 \ -> 285 \ -> 6 \ -> 281 \ -> 263 \ -> 763 \ -> 24 \ -> 285 \ -> 14 \ -> 285 \ -> 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 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -> 14 \ -
                                                                                                ->258 ->549 ->817 ->
                                   762 \; ->\! 272 \; ->\! 781 \; ->\! 788 \; ->\! 117 \; ->\! 270 \; ->\! 778 \; ->\! 267 \; ->\! 257 \; ->\! 261 \; ->\! 48 \; ->\! 80 \; ->\! 10 \; ->\! 259 \; ->\! 253 \; ->\! 397 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; ->\! 100 \; -
                                                                                           ->523 ->787 ->578 ->265 ->
                                   255 \ -> 768 \ -> 838 \ -> 26 \ -> 278 \ -> 647 \ -> 525 \ -> 25 \ -> 60 \ -> 515 \ -> 264 \ -> 512 \ -> 522 \ -> 519 \ -> 504 \ -> 32
                                                                                       ->266 ->102 ->769 ->288 ->
 ->759 ->758 ->764 ->4 ->
                                   295 \ -> 12 \ -> 5 \ -> 9 \ -> 3 \ -> 262 \ -> 786 \ -> 750 \ -> 7 \ -> 11 \ -> 250 \ -> 303 \ -> 760 \ -> 251 \ -> 541 \ -> 254 \ -> 789
                                                                                  ->751 ->785 ->534 ->
                                   516 \ ->\! 252 \ ->\! 755 \ ->\! 511 \ ->\! 517 \ ->\! 513 \ ->\! 752 \ ->\! 506 \ ->\! 754 \ ->\! 1 \ ->\! 2 \ ->\! 753 \ ->\! 502 \ ->\! 503 \ ->\! 537 \ ->\! 535 \ ->\! 535 \ ->\! 537 \ ->\! 535 \ ->\! 537 \ ->\! 535 \ ->\! 537 \ ->\! 535 \ ->\! 537 \ ->\! 535 \ ->\! 537 \ ->\! 535 \ ->\! 537 \ ->\! 537 \ ->\! 535 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->\! 537 \ ->
                                                                                  ->501 ->514 ->505 ->500 ->
163
                                     Time: 52.3425998152233660
165
166 Length: 8721
167
168\ 4\ ->\!470\ ->\!621\ ->\!51\ ->\!976\ ->\!353\ ->\!585\ ->\!599\ ->\!481\ ->\!479\ ->\!745\ ->\!749\ ->\!222\ ->\!211\ ->\!729\ ->\!741
                                                                                           ->352 ->355 ->860 ->245 ->
                                   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 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 1000 \;\; ->\! 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 \;\; ->\! 1
                                                                                           ->227 ->89 ->717 ->93 ->475 ->
                                     937 \ -> 231 \ -> 101 \ -> 707 \ -> 368 \ -> 361 \ -> 685 \ -> 942 \ -> 871 \ -> 958 \ -> 321 \ -> 706 \ -> 607 \ -> 85 \ -> 715 \ -> 988 \ -> 360 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 370 \ -> 456 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 936 \ -> 93
                                                                                                ->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 \ -> 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 \ -> 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 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123 \ -> 123
                                                                                           ->736 ->438 ->977 ->491 ->
                                   592 \ ->\! 74 \ ->\! 495 \ ->\! 997 \ ->\! 477 \ ->\! 861 \ ->\! 970 \ ->\! 700 \ ->\! 989 \ ->\! 296 \ ->\! 201 \ ->\! 369 \ ->\! 340 \ ->\! 614 \ ->\! 359 \ ->\! 343
                                                                                                ->313 ->624 ->831 ->488 ->
 177 \ \ 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 \ \ -> 1
                                                                                           ->122 ->480 ->97 ->243 ->994 ->
                                   851 \ -> 565 \ -> 617 \ -> 730 \ -> 588 \ -> 788 \ -> 233 \ -> 993 \ -> 874 \ -> 200 \ -> 991 \ -> 967 \ -> 999 \ -> 552 \ -> 966
                                                                                           ->182 ->316 ->339 ->863 ->623 ->
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                                                                                    ->541 ->916 ->197 ->120 ->929 ->
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                                                                                       ->482 ->363 ->472 ->417 ->
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                                                                                         ->611 ->494 ->553 ->221 ->901 ->
                                   667 \; -> 903 \; -> 188 \; -> 442 \; -> 473 \; -> 191 \; -> 466 \; -> 672 \; -> 68 \; -> 946 \; -> 357 \; -> 181 \; -> 521 \; -> 57 \; -> 844 \; -> 465 \; -> 681 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 1881 \; -> 188
                                                                                     ->171 ->446 ->605 ->928 ->
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 191 \ \ 373 \ \ ->469 \ \ ->172 \ \ ->791 \ \ ->526 \ \ ->941 \ \ ->467 \ \ ->284 \ \ ->61 \ \ ->803 \ \ ->705 \ \ ->365 \ \ ->119 \ \ ->318 \ \ ->873 \ \ ->826 \ \ ->119 \ \ ->318 \ \ ->873 \ \ ->826 \ \ ->119 \ \ ->873 \ \ ->826 \ \ ->119 \ \ ->873 \ \ ->873 \ \ ->826 \ \ ->119 \ \ ->873 \ \ ->873 \ \ ->826 \ \ ->119 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \ ->873 \ \
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  192 \ 554 \ -> 324 \ -> 174 \ -> 697 \ -> 421 \ -> 80 \ -> 515 \ -> 67 \ -> 105 \ -> 82 \ -> 960 \ -> 821 \ -> 969 \ -> 835 \ -> 789 \ -> 812 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -
                                                                                                            ->674 ->853 ->152 ->735 ->
                                            453 \ ->\! 244 \ ->\! 568 \ ->\! 622 \ ->\! 156 \ ->\! 948 \ ->\! 268 \ ->\! 300 \ ->\! 95 \ ->\! 525 \ ->\! 548 \ ->\! 458 \ ->\! 975 \ ->\! 322 \ ->\! 786 \ ->\! 451 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 1000 \ ->\! 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 \ ->\! 100000 \ ->\! 10000 \ ->\! 10000 \ ->\! 10000 \ ->\! 10000 \ ->\! 10000 \ 
                                                                                                                    ->917 ->215 ->561 ->872 ->
                                            952 \ -{>}216 \ -{>}544 \ -{>}193 \ -{>}772 \ -{>}294 \ -{>}166 \ -{>}849 \ -{>}905 \ -{>}954 \ -{>}938 \ -{>}151 \ -{>}862 \ -{>}518 \ -{>}367 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 \ -{>}100 
                                                                                                          ->794 ->157 ->418 ->98 ->77 ->
                                            698 \ -> 159 \ -> 904 \ -> 797 \ -> 933 \ -> 725 \ -> 72 \ -> 312 \ -> 550 \ -> 84 \ -> 309 \ -> 179 \ -> 924 \ -> 805 \ -> 982 \ -> 281 \ -> 805 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100
                                                                                                              ->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 \; 
  196
                                                                                                  ->185 ->711 ->787 ->66 ->
                                            689 \ -> 435 \ -> 241 \ -> 840 \ -> 822 \ -> 83 \ -> 559 \ -> 892 \ -> 925 \ -> 78 \ -> 412 \ -> 116 \ -> 675 \ -> 931 \ -> 718 \ -> 535 \ -> 675 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110 \ -> 110
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                                                                                                              ->834 ->783 ->118 ->158 ->
                                          792 \ ->\! 41 \ ->\! 427 \ ->\! 235 \ ->\! 295 \ ->\! 139 \ ->\! 305 \ ->\! 545 \ ->\! 529 \ ->\! 56 \ ->\! 364 \ ->\! 673 \ ->\! 818 \ ->\! 422 \ ->\! 144 \ ->\! 551
  198
                                                                                                            ->323 ->190 ->900 ->8 ->
                                          325 \ ->\! 206 \ ->\! 150 \ ->\! 28 \ ->\! 682 \ ->\! 744 \ ->\! 781 \ ->\! 776 \ ->\! 974 \ ->\! 858 \ ->\! 722 \ ->\! 279 \ ->\! 356 \ ->\! 409 \ ->\! 587 \ ->\! 600 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \ ->\! 100 \
  199
                                                                                                                  ->894 ->230 ->42 ->949 ->
                                              678 \ -> 899 \ -> 778 \ -> 646 \ -> 499 \ -> 809 \ -> 703 \ -> 186 \ -> 648 \ -> 666 \ -> 546 \ -> 426 \ -> 784 \ -> 795 \ -> 320 \ -> 65 \ -> 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 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 650 \ -> 65
                                                                                                                  ->830 ->440 ->257 ->290 ->
                                            ->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
202
                                                                                                              ->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 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100 -> 100
                                                                                                      ->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 ->
                                            71 \ -> 527 \ -> 571 \ -> 777 \ -> 523 \ -> 15 \ -> 75 \ -> 380 \ -> 663 \ -> 506 \ -> 423 \ -> 653 \ -> 896 \ -> 534 \ -> 277 \ -> 432
                                                                                                        ->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
207
                                                                                                              ->895 ->45 ->522 ->358 ->
                                          395 \ -{>}771 \ -{>}393 \ -{>}650 \ -{>}879 \ -{>}153 \ -{>}520 \ -{>}508 \ -{>}507 \ -{>}647 \ -{>}632 \ -{>}815 \ -{>}774 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}643 \ -{>}137 \ -{>}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 
208
                                                                                                      ->514 ->950 ->884 ->511 ->184 ->
                                          798 \ -> 134 \ -> 165 \ -> 405 \ -> 141 \ -> 37 \ -> 407 \ -> 463 \ -> 52 \ -> 908 \ -> 25 \ -> 114 \ -> 19 \ -> 915 \ -> 671 \ -> 401 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \
                                                                                                            ->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
                                                                                                          ->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 \ ->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 \ ->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 \ -> 751 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 100 \ -> 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
                                                                                                      ->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
```

# Determinant Problem - data tables for graphs

	Runtime													
	Size:													
Thread_Count	16	32	64	128	256	496	512	1000	1024	2000	2048	3000	4000	4096
1	4.17E-05	6.72E-05	2.98E-04	1.94E-03	1.47E-02	1.05E-01	1.16E-01	8.55E-01	9.16E-01	7.17E+00	7.73E+00	2.51E+01	5.94E+01	6.39E+01
2	1.59E-04	2.31E-04	4.45E-04	1.62E-03	8.95E-03	5.76E-02	6.39E-02	4.53E-01	4.89E-01	3.46E+00	3.74E+00	1.37E+01	3.42E+01	3.69E+01
4	1.98E-04	2.84E-04	4.62E-04	1.38E-03	5.21E-03	3.05E-02	3.38E-02	2.32E-01	2.51E-01	1.79E+00	1.88E+00	9.06E+00	2.64E+01	2.78E+01
8	3.01E-04	3.54E-04	5.40E-04	1.39E-03	4.07E-03	1.73E-02	1.91E-02	1.22E-01	1.27E-01	9.14E-01	9.57E-01	7.37E+00	2.35E+01	2.56E+01
16	4.85E-04	6.40E-04	8.67E-04	1.79E-03	3.83E-03	1.24E-02	1.32E-02	7.12E-02	7.66E-02	4.89E-01	5.25E-01	6.73E+00	2.37E+01	2.58E+01
32	2.25E-02	2.27E-02	1.86E-02	5.81E-01	9.92E-01	2.65E-02	2.12E+00	1.12E+00	1.24E-01	6.53E+00	3.02E+00	7.15E+00	2.40E+01	2.71E+01
	Speedup													
	Size:													
Thread_Count	16	32	64	128	256	496	512	1000	1024	2000	2048	3000	4000	4096
1	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
2	2.62E-01	2.91E-01	6.70E-01	1.20E+00	1.64E+00	1.82E+00	1.81E+00	1.89E+00	1.87E+00	2.07E+00	2.07E+00	1.84E+00	1.74E+00	1.73E+00
4	2.11E-01	2.36E-01	6.46E-01	1.41E+00	2.82E+00	3.44E+00	3.42E+00	3.69E+00	3.65E+00	4.00E+00	4.10E+00	2.77E+00	2.25E+00	2.30E+00
8	1.39E-01	1.90E-01	5.52E-01	1.39E+00	3.61E+00	6.08E+00	6.07E+00	7.01E+00	7.22E+00	7.84E+00	8.08E+00	3.40E+00	2.52E+00	2.50E+00
16	8.61E-02	1.05E-01	3.44E-01	1.09E+00	3.83E+00	8.46E+00	8.79E+00	1.20E+01	1.20E+01	1.47E+01	1.47E+01	3.73E+00	2.51E+00	2.48E+00
32	1.86E-03	2.96E-03	1.60E-02	3.35E-03	1.48E-02	3.96E+00	5.46E-02	7.61E-01	7.39E+00	1.10E+00	2.56E+00	3.51E+00	2.48E+00	2.36E+00
	Efficiency													
	Size:	0												
Thread_Count	16	32	64	128	256	496	512	1000	1024	2000	2048	3000	4000	4096
1	6.25E-02	3.13E-02	1.56E-02	7.81E-03	3.91E-03	2.02E-03	1.95E-03	1.00E-03	9.77E-04	5.00E-04	4.88E-04	3.33E-04	2.50E-04	2.44E-04
2	1.64E-02	9.09E-03	1.05E-02	9.35E-03	6.41E-03	3.68E-03	3.53E-03	1.89E-03	1.83E-03	1.03E-03	1.01E-03	6.12E-04	4.34E-04	4.23E-04
4	1.32E-02	7.38E-03	1.01E-02	1.10E-02	1.10E-02	6.94E-03	6.69E-03	3.69E-03	3.57E-03	2.00E-03	2.00E-03	9.22E-04	5.63E-04	5.60E-04
8	8.66E-03	5.94E-03	8.63E-03	1.09E-02	1.41E-02	1.23E-02	1.18E-02	7.01E-03	7.05E-03	3.92E-03	3.94E-03	1.13E-03	6.31E-04	6.10E-04
16	5.38E-03	3.28E-03	5.38E-03	8.50E-03	1.50E-02	1.71E-02	1.72E-02	1.20E-02	1.17E-02	7.33E-03	7.19E-03	1.24E-03	6.27E-04	6.06E-04
32	1.16E-04	9.25E-05	2.50E-04	2.61E-05	5.78E-05	7.99E-03	1.07E-04	7.61E-04	7.22E-03	5.49E-04	1.25E-03	1.17E-03	6.20E-04	5.76E-04

Figure 9: Data tables for the LU Decomposition analysis graphs.

# Traveling Salesperson Problem - data tables for graphs

### 2. Ant Colony

	Runtime							
	Iterations							
Thread Count	1	2	4					
1	26.45347	52.72592	105.5458					
2	17.10598	34.82879	71.54379					
4	12.9267	26.59231	52.3426					
8	13.71773	25.93956	51.37555					
Speedup Iterations								
Thread Count	1	2	4					
1	1	1	1					
2	1.546445	1.51386	1.475261					
4	2.046421	1.98275	2.016441					
8	1.928415	2.032645	2.054397					
	Efficiency Iterations							
Thread Count	1	2	4					
1	1	0.5	0.25					
2	1.546445	0.75693	0.368815					
4	2.046421	0.991375	0.50411					
8	1.928415	1.016323	0.513599					

Figure 10: Data tables for the Ant Colony TSP analysis graphs.