```
parcel.php X
   parcel.php > ..
                                        public $file_name;
                                        public $indexes;
                                       public $population_size;
public $fitness;
                                        public $max_generation;
                                        public $knapsack;
                                        public function __construct($parameters)
                                                     $this->file_name = $parameters['file_name'];
$this->indexes = $parameters['indexes'];
$this->columns = $parameters['columns'];
                                                  $\final \text{Sthis->population_size = $parameters['population_size'];}
$\this->fitness = $parameters['fitness'];
$\this->max_generation = $parameters['max_generation'];
$\text{Sthis->max_generation = } \text{Sparameters['max_generation'];}
$\text{Sthis->max_generation = } \text{Sparameters['max_generation'];}
$\text{Standard Max_generation'} \text{Sparameters['max_generation'];}
$\text{Sparameters['max_generation'];}
$\text{Sparameters['
                                                     $this->knapsack = $parameters['knapsack'];
$this->crossover_rate = $parameters['crossover_rate'];
                                         public static function catalogue($parameters)
                                                       ## Todo change into open closed principles/polymorphism
if (!is_array($parameters->indexes)) {
                                                                   return new Exception("Indexes parameter must be an array!");
                                                      if (!is_array($parameters->columns)) {
                                                                    return new Exception("Columns parameter must be an array!");
                                                    }
if (!is_string($parameters->file_name)) {
    return new Exception("Filename parameter must be a string!");
}
                                                     $raw_data = file($parameters->file_name);
                                                    $\data[] = explode(",", $val);
}
```

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       Explorer (Ctrl+Shift+E)
                        $raw_data = file($parameters->file_name);
                        foreach ($raw_data as $val) {
                           $data[] = explode(",", $val);
                       foreach ($data as $key => $val) {
    foreach (array_keys($val) as $subkey) {
        if ($subkey == $parameters->indexes[$subkey]) {
            $data[$key][$parameters->columns[$subkey]] = $data[$key][$subkey];
            unset($data[$key][$subkey]);
}
œ
                              'gen_length' => count($data)
               class Generate
                   public static function initialPopulation($parameters)
                        $catalogue = Products::catalogue($parameters);
                        for ($i = 0; $i <= $parameters->population_size - 1; $i++) {
                            return $ret;
                   public static function randomZeroToOne()
                        return (float) rand() / (float) getrandmax();
                   public static function randomGenLength($parameters)
                        $catalogue = Products::catalogue($parameters);
                        return rand(1, $catalogue['gen_length'] - 1);
                   public static function chromosomeGenWithProducts($populations, $parameters)
                        $ret = [];
```

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Search (dut-shirt)

product (first parcel)

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                           sprice = max(array_column($optimized, 'price'));
$id = array_search($price, array_column($optimized, 'price'));
$individu = $population[$optimized[$id]['index']];
                            return [
'price' => $price,
'solution' => $individu
                 class RandomNumbers
                      public static function zeroToOne($population_size)
                            for ($i = 0; $i <= $population_size - 1; $i++) {
    $ret[] = Generate::randomZeroToOne();</pre>
                      public $population_size;
                      function __construct($population_size)
                           $this->population_size = $population_size;
                     function probability($individual_fitness)
                            foreach ($individual_fitness as $fitness) {
    $ret[] = $fitness / array_sum($individual_fitness);
                            return $ret;
                      function cummulative($individual_fitness)
                            foreach ($this->probability($individual_fitness) as $key => $probability) {
                                if ($key === 0) {
    $ret[$key] = $probability;
                                 } else {
                                      $ret[$key] = $probability + $ret[$key - 1];
```

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C
                                p>....
'file_name' => 'products.txt',
'indexes' => [0, 1],
'columns' => ['item', 'price'],
'population_size' => 10,
'fitness' => 1000,
'max_generation' => 1000,
'crossover_nate' => 0.75,
'knapsack' => 150000
                      $parameters = new Parameters($parameters);
$catalogue = Products::catalogue($parameters);
                       for ($i = 0; $i <= $parameters->max_generation; $i++) {
    if ($i === 0) {
        $initial_populations = Generate::initialPopulation($parameters);
        $selected_product = Pairing::chromosomeGenWithProducts($initial_populations, $parameters);
        echo '';
        $sumOfBuy = Calculate::sumOfBuy($selected_product);
        print_($sumOfBuy);
        seho '';
    }
                                        ecno stindividual_fitness = Fitness::evaluation($sumOfBuy, $parameters->knapsack);
print_r($individual_fitness);
                                      echo ' Total fitness ' . array_sum($individual_fitness);
echo '<br>';
                                      if (Fitness::isOne($individual_fitness)) {
   echo ' Total fitness' . array_sum($individual_fitness);
   echo 'Maximum 1 achieved!';
   $solution = Fitness::result($initial_populations, $individual_fitness, $sumOfBuy);
                                              print_r($solution);
exit();
                                      }
$solution = Fitness::result($initial_populations, $individual_fitness, $sumOfBuy);
print_r($solution);
$bests[] = $solution;
                                        $select = new RouletteWheelSelection($parameters->population_size);
                                        echo '';
print_r($select->probability($individual_fitness));
                                        echo '';
$cummulative = $select->cummulative($individual_fitness);
                                        print_r($cummulative);
                                        $selected_chromosome = $select->selection($individual_fitness, $initial_populations);
                                        echo '';
echo 'Hasil seleksi<br>';
                                        print_r($selected_chromosome);
```

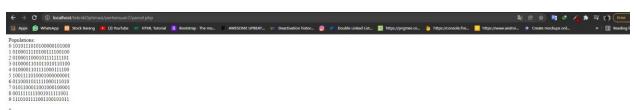
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D
                                                                         print_r($select->probability($individual_fitness));
echo '';
$cummulative = $select->cummulative($individual_fitness);
                                                                          echo
                                                                          echo '';
print_r($cummulative);
                                                                          $selected chromosome = $select->selection($individual fitness, $initial populations):
                                                                          print r($selected chromosome);
                                                                          echo 'der>';
$crossover = new Crossover($parameters->population_size, $parameters->crossover_rate);
$selected_individuals = $crossover->selectedIndividual($selected_chromosome, $new_populations);
                                                                         $\frac{\partial violats}{\partial violate} = \partial \text{crossover->selectedIndividuals};
$\text{sumber_of_parents} = \text{count(\partial violate);}
$\text{echo} 'Individu terpilih: ';}
$\text{echo} 'Individu terpilih: '
                                                                         echo 'Individu terpilih:
echo $number_of_parents;
                                                                         echo ' ';
print_r($selected_individuals);
                                                                         echo 'Combination:<br>';
$combinations = $crossover->combination($selected_individuals);
                                                                          $cut positions = $crossover->cutPositions($parameters, $number of parents);
                                                                         $new_individuals = $crossover->newIndividuals($selected_chromosome, $selected_individuals, $cut_positions, $combinations, $parameters);
print_r($new_individuals);
                                                                         echo '(p)';
echo 'New populations<br/>tp>';
Snew_populations = $crossover->updatePopulations($selected_chromosome, $new_individuals);
                                                                          print_r($new_populations);
echo '';
                                              print_r($bests);
                                             princ= (quests);

$max_price - max(array_column($bests, 'price'));

$index - array_search($max_price, array_column($bests, 'price'));
                                             echo 'qo';
print_r($bests[$index]);
$selected_product = Pairing::chromosomeGenWithProducts($bests[$index], $parameters);
```



v Array ([product] \Rightarrow Chitato 68 gr [price] \Rightarrow \$900) [1] \Rightarrow Array ([product] \Rightarrow Botan Mackarel 425 gr [price] \Rightarrow \$2800) [2] \Rightarrow Array ([product] \Rightarrow Palm Fruit Kurma 500 gr [price] \Rightarrow 5900) [3] \Rightarrow Array ([product] \Rightarrow Marjan Syrup 460 ml [price] \Rightarrow 17900) [4] \Rightarrow Array ([product] \Rightarrow 68 Wafer Sick 500 gr [price] \Rightarrow 33300) [5] \Rightarrow Array ([product] \Rightarrow Kokola Wafer Cream 252 gr [price] \Rightarrow 18500) [6] \Rightarrow Array ([product] \Rightarrow Pop Min Pake Nais 75 gr [price] \Rightarrow 3000) [7] \Rightarrow Array ([product] \Rightarrow Ultra Low Fat Sunu UHT 1000 ml [price] \Rightarrow 19900) [8] \Rightarrow Array ([product] \Rightarrow Kokola Wafer Cream 252 gr [price] \Rightarrow 18500) [9] \Rightarrow Array ([product] \Rightarrow Pop Min Pake Nais 75 gr [price] \Rightarrow 3000) [19300]

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Array ([0] \Rightarrow Array ([product] \Rightarrow Teh Souro Kotak [price] \Rightarrow 6900)[1] \Rightarrow Array ([product] \Rightarrow Marjan Syrup 460 ml [price] \Rightarrow 17900)[2] \Rightarrow Array ([product] \Rightarrow 365 Wafer Stock 500 gr [price] \Rightarrow 23290)[3] \Rightarrow Array ([product] \Rightarrow Nissan Biscuit Lemonia Twait 340 gr [price] \Rightarrow 22290)[4] \Rightarrow Array ([product] \Rightarrow New Kokola Wafer Cream 232 gr [price] \Rightarrow 18300)[5] \Rightarrow Array ([product] \Rightarrow New Nissan Biscuit Lemonia Twait 340 gr [price] \Rightarrow 22290)[4] \Rightarrow Array ([product] \Rightarrow Nissan Biscuit Lemonia Twait 340 gr [price] \Rightarrow 18000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 18000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 232 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Array ([product] \Rightarrow Macdura 242 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 242 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 242 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow Macdura 242 gr [price] \Rightarrow 19000)[8] \Rightarrow Array ([product] \Rightarrow A

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Array ([9) = Array ([product] => Teh Sono Konk [price] => 6900) [1] => Array ([product] => Mainin Syrup 460 ml [price] => 17900) [2] => Array ([product] => 765 Wafer Stick 500 gr [price] => 32390) [3] => Array ([product] => Pop Mine Pake Nasi 75 gr [price] => 8000) [4] => Array ([product] => Das Belibus Sambal 135 340 335 gr [price] => 8650) [5] => Array ([product] => Teh Hjsso Kepsla Djengges 60 gr [price] => 1990) [6] => Array ([product] => Makanonaka 200 gr [price] => 1990) [7] => Array ([product] => Teh Hjsso Kepsla Djengges 60 gr [price] => 1990) [8] => Array ([product] => Makanonaka 200 gr [price] => 1990) [8] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [9] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => Teh Soso UST 1000 ml [price] => 1990) [1] => Array ([product] => 1990) [1] => Array ([produ

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Array ([p) \Rightarrow Array ([product] \Rightarrow Teh Souro Kotak [price] \Rightarrow 6900) [1] \Rightarrow Array ([product] \Rightarrow 365 Wafer Sinck 500 gr [price] \Rightarrow 22390) [2] \Rightarrow Array ([product] \Rightarrow Nissin Biscuit Lemonia Twast 340 gr [price] \Rightarrow 22500) [3] \Rightarrow Array ([product] \Rightarrow Sari Kacang Hijau 150 ml [price] \Rightarrow 7790) [4] \Rightarrow Array ([product] \Rightarrow Tenyaki Saor 275 ml [price] \Rightarrow 17900 [15] \Rightarrow Array ([product] \Rightarrow Dia Belibis Sambal 157303 gr [price] \Rightarrow 58500 [6] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [7] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [7] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [7] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [8] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [8] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [8] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [8] \Rightarrow Array ([product] \Rightarrow Madurasa 150 gr [price] \Rightarrow 16900 [8] \Rightarrow

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A ray ([0] \Rightarrow Array ([product] \Rightarrow Chitato 68 gr [price] \Rightarrow 8900) [1] \Rightarrow Array ([product] \Rightarrow Kejou Cheédar 180 gr [price] \Rightarrow 15250) [2] \Rightarrow Array ([product] \Rightarrow Palm Fruit Kuma 500 gr [price] \Rightarrow 56900) [3] \Rightarrow Array ([product] \Rightarrow Marjan Syrup 460 ml [price] \Rightarrow 1600 ml [price] \Rightarrow 18500) [6] \Rightarrow Array ([product] \Rightarrow Dau Belibis Sambal 135:340:535 gr [price] \Rightarrow 8650) [7] \Rightarrow Array ([product] \Rightarrow Danis buscuit [price] \Rightarrow 46900)) 203390

6
Array ([p] \Rightarrow Array ([product] \Rightarrow Teb Sono Kotak [price] \Rightarrow 6900)] [1] \Rightarrow Array ([product] \Rightarrow Botan Mackarel 425 gr [price] \Rightarrow 28900)] [2] \Rightarrow Array ([product] \Rightarrow Sonic Kotak [price] \Rightarrow 2800) [3] \Rightarrow Array ([product] \Rightarrow Sonic Kotak [price] \Rightarrow 2800) [3] \Rightarrow Array ([product] \Rightarrow Kotak [price] \Rightarrow 2800) [3] \Rightarrow Array ([product] \Rightarrow Sonic Kotak [price] \Rightarrow 2800) [3] \Rightarrow Array ([product] \Rightarrow Kotak [price] \Rightarrow 2800) [6] \Rightarrow Array ([product] \Rightarrow Kotak [price] \Rightarrow 2800) [7] \Rightarrow Array ([product] \Rightarrow Kotak [price] \Rightarrow 2800) [8] \Rightarrow Array ([product] \Rightarrow Kotak [price] \Rightarrow 2800) [8] \Rightarrow Array ([product] \Rightarrow Kotak [price] \Rightarrow 2800) [9] \Rightarrow Array ([product] \Rightarrow Kotak [price] \Rightarrow 3800) [10] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Kopa suas ABC [price] \Rightarrow 3900) [11] \Rightarrow Array ([product] \Rightarrow Array ([product] \Rightarrow

. Array ([0] \Rightarrow Array ([product] \Rightarrow Teh Souro Kotak [price] \Rightarrow 6900) [1] \Rightarrow Array ([product] \Rightarrow Keju Cheddar 180 gr [price] \Rightarrow 15250) [2] \Rightarrow Array ([product] \Rightarrow Palm Fuit Kurma 500 gr [price] \Rightarrow 56900) [3] \Rightarrow Array ([product] \Rightarrow Kokola Wafer Cream 252 gr [price] \Rightarrow 18500) [4] \Rightarrow Array ([product] \Rightarrow Sari Kacang Hijim 150 ml [price] \Rightarrow 7790) [5] \Rightarrow Array ([product] \Rightarrow Dana Belibis Sambal 135/340333 gr [price] \Rightarrow 8650) [6] \Rightarrow Array ([product] \Rightarrow Ultra Low Far Susu UHT 1000 ml [price] \Rightarrow 1990) [7] \Rightarrow Array ([product] \Rightarrow Danis biscuit [price] \Rightarrow 46900) 180/90

8 Array ($[p \Rightarrow Array \ ([product] \Rightarrow Botan Mackarel 425 \ g [price] \Rightarrow 2890)\ [1] \Rightarrow Array \ ([product] \Rightarrow Keju Cheddar 180 \ g [price] \Rightarrow 1790)\ [4] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Stack 500 \ g [price] \Rightarrow 23290)\ [5] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [5] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [5] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [5] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [6] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [7] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [7] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [8] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [9] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [1] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [1] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [1] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [1] \Rightarrow Array \ ([product] \Rightarrow Kola Wafer Cream 522 \ g [price] \Rightarrow 13290)\ [1] \Rightarrow Array \ ([product] \Rightarrow 132900)\ [1] \Rightarrow Ar$

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Array ([product] \Rightarrow Chitato 68 gr [price] \Rightarrow 5890) [1] \Rightarrow Array ([product] \Rightarrow Teh Sowo Kotak [price] \Rightarrow 5690) [2] \Rightarrow Array ([product] \Rightarrow Botan Mackarel 425 gr [price] \Rightarrow 28900) [3] \Rightarrow Array ([product] \Rightarrow Palm Frint Kurma 500 gr [price] \Rightarrow 56900) [4] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (product] \Rightarrow Sokola Wafer (price) \Rightarrow 23390) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 23390) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 23390) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 23800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 23800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 23900) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow Sokola Wafer (price) \Rightarrow 3800) [7] \Rightarrow Array ([product] \Rightarrow

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 $\begin{array}{l} \text{Combination:} \\ \text{Array ([0]} \Rightarrow \text{Array ([0]} \Rightarrow 0 \text{ [1]} \Rightarrow 2 \text{ [1]} \Rightarrow \text{Array ([0]} \Rightarrow 2 \text{ [1]} \Rightarrow 5 \text{ [2]} \Rightarrow \text{Array ([0]} \Rightarrow 3 \text{ [1]} \Rightarrow 2 \text{ [3]} \Rightarrow \text{Array ([0]} \Rightarrow 4 \text{ [1]} \Rightarrow 2 \text{ [4]} \Rightarrow \text{Array ([0]} \Rightarrow 5 \text{ [1]} \Rightarrow 9 \text{ [5]} \Rightarrow \text{Array ([0]} \Rightarrow 6 \text{ [1]} \Rightarrow 9 \text{ [6]} \Rightarrow \text{Array ([0]} \Rightarrow 7 \text{ [1]} \Rightarrow 0 \text{ [7]} \Rightarrow \text{Array ([0]} \Rightarrow 8 \text{ [1]} \Rightarrow 9 \text{ [8]} \Rightarrow \text{Array ([0]} \Rightarrow 8 \text{ [1]} \Rightarrow 9 \text{ [8]} \Rightarrow \text{Array ([0]} \Rightarrow 6 \text{ [1]} \Rightarrow 9 \text{ [6]} \Rightarrow \text{Array ([0]} \Rightarrow 7 \text{ [1]} \Rightarrow 0 \text{ [7]} \Rightarrow \text{Array ([0]} \Rightarrow 8 \text{ [1]} \Rightarrow 9 \text{ [8]} \Rightarrow \text{Array ([0]} \Rightarrow 8 \text{ [1]} \Rightarrow 9 \text{ [8]} \Rightarrow \text{Array ([0]} \Rightarrow 8 \text{ [1]} \Rightarrow 9 \text{ [1]} \text{$

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