4.1 Statistics of the tables

1) Actual number of tuples: __________; estimated number by the optimizer: __________;
   How do you find this information?

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th># of Distinct Values</th>
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</table>
4.2 Index on perfect match query

1) Estimated total cost is ______________;
   The cost of a plan means

2) The estimated result cardinality is ______________;
   How does the query optimizer get this value?

Is it a reasonable value? YES / NO

3) The access method is ________________________.

4) Order of the tuples returned by the plan:

Create index.
5) The access method now is ________________________.

6) Explanation
4.3 Index on range select

1) _______ tuples will be returned by this plan; the total cost is ________________;

2) Explanation

3) The access method is ________________;

   Disable the access method in 3)

4) The total cost now is ________________;
   Order:

   Is it the same as step 1)? YES / NO

5) Explanation:
4.4 Join algorithm

1) Estimated total cost is __________________; 
   Plan Tree:
   
   2) Use ___________________ join algorithm; 

   3) Number of tuples that will be retrieved from partsupp is _______________;

   Disable the join algorithm in 2)
   4) Now the join algorithm is ___________________; the total cost is now ____________

   Disable the join algorithm in 2) and 4)
   5) Now the join algorithm is ___________________; the total cost is now ____________