Exercise 1
Create the DP table (manually) for the relations $A$, $B$, $C$ with cardinalities $|A| = 10$, $|B| = 20$, $|C| = 100$ and selectivities $f_{AB} = 0.5$, $f_{BC} = 0.1$ (cost function $C_{out}$). Mark the final table entries. Enumerate subsets in the integer order. Consider cross products.

Exercise 2
Using the program from the last exercise as basis, implement Greedy Operator Ordering. Print the partial steps together with their costs (e.g., $P = R_1 \Join R_2 200$, $Q = P \Join R_3 400$), as well as the final join tree.

Exercise 3
Load the TPC H data set. (You can use our snapshot of the data set, the loadtpch-* script loads the data). Then, execute the following SQL query using the program implemented above. Print the query plan, the results, and the time it took to execute the query:

```sql
select *
from lineitem l, orders o, customers c
where l.l_orderkey=o.o_orderkey and o.o_custkey=c.c_custkey and c.c_name='Customer#000014993'.
```