Oracle	Name:
Practice	Class:
Index	Date:

ROWID	PID	PNAME	PTYPE	PRICE
A2	1	Coca Cola	drink	2.3
C2	2	Ham sandwich	sandwich	2.5
B1	3	Salami sandwich	sandwich	2.5
D2	4	Hot Dog	sausage	3.0
A1	5	Fanta	drink	2.1
C1	6	Vienna Sausage	sausage	2.8
B2	7	Bratwurst	sausage	3.5
E2	8	Sprite	drink	2.3
E1	9	Frankfurters	sausage	2.4
D1	10	Ice Tea	drink	1.9

Next ROWIDs: F1, F2, G1, G2

Create a Bitmap Index on the PTYPE column:									

Show the execution of the following SQL Statements:

SELECT ptype,
count(*)

FROM product

GROUP BY ptype;

```
Show the changes in the Bitmap Index: INSERT INTO product VALUES (11, 'Knackwurst', 'sausage' 1.8);
```

```
Show the changes in the Bitmap Index: INSERT INTO product VALUES (12, 'Fries', 'vegetarian' 1.4);
```

https://www.cs.usfca.edu/~galles/visualization/BPlusTree.html and add the data of the index attribute PRICE.						
Show the content of the BTree Index:						
How is the following SQL Statement evaguted?						
How is the following SQL Statement executed? SELECT * FROM PRODUCT						
WHERE PRICE = 2.8;						

Use the webpage to check the result of the Btree Index of the following SQL Statement: INSERT INTO product VALUES (11, 'Knackwurst', 'sausage' 1.8);

Open the webpage

Create a Hash Index on the PNAME column:								
Algorithm: Use the first character of the PNAME column und use the alphabetical order. The result MOD 10 gives you the hash result.								

How is the following SQL Statement executed?

SELECT *

FROM PRODUCT

WHERE PNAME = 'Sprite';

What are the changes in the index of the following SQL Statement?

INSERT INTO product VALUES (11, 'Knackwurst', 'sausage' 1.8);