The G-Counter
From a programmer's perspective

```haskell
newtype GCounter
  = GCounter (Map.HashMap ReplicaId Int)


instance gCounterStateBasedCRDT :: StateBasedCRDT GCounter where
  merge (GCounter a) (GCounter b) = GCounter $ Map.unionWith max a b


query :: GCounter → Int
query (GCounter map) = sum map


increment :: ReplicaId → GCounter → GCounter
increment replica (GCounter map) = GCounter $ Map.insertWith add replica 1 map
```

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