```
int hash1(String s) {
  return s.length();
}

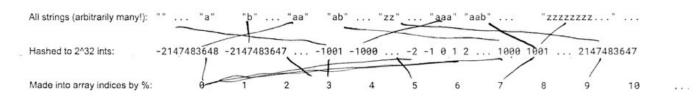
int hash2(String s) {
  int hash = 0;
  for(int i = 0; i < s.length(); i += 1) {
     hash += Character.codePointAt(s, i);
  }
  return hash;
}

public int hash3(String s) {
  int h = 0;
  for (int i = 0; i < s.length(); i++) {
     h = 31 * h + Character.codePointAt(s, i);
  }
  return h;
}</pre>
```

```
hash2 4157 = 26 4913 = 26
hash3 ((31*6)+4)*31+15)*31+7
((31*6)+4)*31+9)*31+13
"ok" "ALM"
```

"hypoplankton"

"unheavenly"



Coals:

- Evenly Distributed
- Fast (not related to # elements in hash table)
- Deterministic