

P6. (difficulty 3*) Estimated probability using counting. Given a count as a dictionary data type (as from P5), write a function named `est_prob` to calculate estimate probabilities of each word, and return another dictionary of the estimate probabilities.

Example

When invoked by

```
wcount = {'culinary': 3, 'history': 5, 'dynasty': 1, 'silk': 2,
          'Buddhist': 2, 'caves': 2, 'wall': 3, 'history': 4}
```

```
ps = est_prob(wcount)
```

```
print('Text:', wcount)
```

```
print('Count:', ps)
```

it results

```
=====
```

```
Text: {'wall': 3, 'Buddhist': 2, 'silk': 2, 'dynasty': 1, 'culinary':
3, 'caves': 2, 'history': 4}
```

```
Count: {'history': 0.23529411764705882, 'caves': 0.11764705882352941,
'silk': 0.11764705882352941, 'Buddhist': 0.11764705882352941,
'culinary': 0.17647058823529413, 'wall': 0.17647058823529413,
'dynasty': 0.058823529411764705}
```

```
=====
```

Note: The order of a dictionary may seem strange, but don't worry about it. Dictionary emphasizes access using keys, rather than order.

:0