Tested with `values`

```python
>>> values = [2_000,600,6_000,16_000,50_000,60_000]
>>> for val in values:
...     print(f"{val}: {income_tax(val)}")
2000: 256.15
600: 14.3
6000: 1133.0
16000: 3633.0
50000: 13631.15
60000: 17131.15
```

- 2000 was chosen to check correctness with the question.

- 600 was chosen to check the bracket $512 <= \text{gross} <= 642$

- 6000 was chosen to check the bracket $642 <= \text{gross} <= 3642$

- 16000 was chosen to check the bracket $3642 <= \text{gross} <= 20037$

- 50000 was chosen to check the bracket $20037 <= \text{gross} <= 50000$

- 60000 was chosen to check the bracket $\text{gross} > 50000$