

Correctness (Safety) vs Security

Safety

Satisfy specifications 'for reasonable inputs, get reasonable outputs'

Security

Resist attacks

"for unreasonable inputs,
get reasonable outputs"

The attacker is an active entity

Correctness (Safety) vs Security

Safety

Security

Satisfy specifications

"for reasonable inputs, get reasonable outputs"

Resist attacks

"for **un**reasonable inputs, get reasonable outputs"

The attacker is an active entity

One say that such program/os is more vulnerable

Some are	SO
more deployed than others	more targeted/audited by hackers/researchers
more complex than others	multiple points of failure, larger attack surface
more open to third-party code than others	more "amateur" codes, permissive execution