How to write better programs with unsafe programming languages?

Defensive programming (1)
Adopting good programming practices

Modularity

➡ Have separate modules for separate functionalities

✓ Easier to find security flaws when components are independent

Encapsulation

➡ Limit the interaction between the components

✓ Avoid wrong usage of the components

Information hiding

➡ Hide the implementation

◉ Black box model does not improve security