So why are we still using unsafe programming languages?

If other programming languages are "memory safe", why are we not using them instead?

→ Because C and assembly code are used when a program requires high performances (audio, vide, calculus ...) or when dealing with hardware directly (OS, drivers)

Can we write better programs with unsafe programming languages?

Defensive Programming Approach

- . Adopting good programming practices
- 2. Being security aware programmer

Proactive Approach

- 3. Using security libraries
- 4. Performing penetration testing

Formal Approach

- 5. Using formal methods to verify a program
- 6. Using formal methods to generate a program