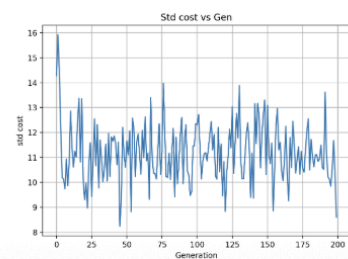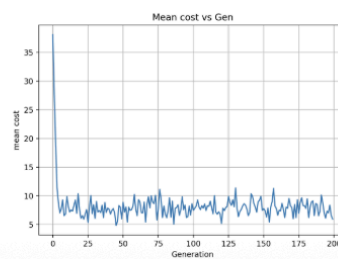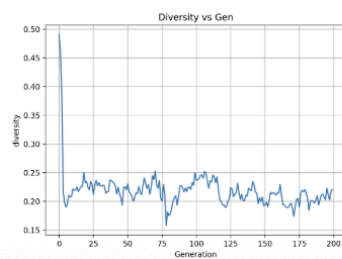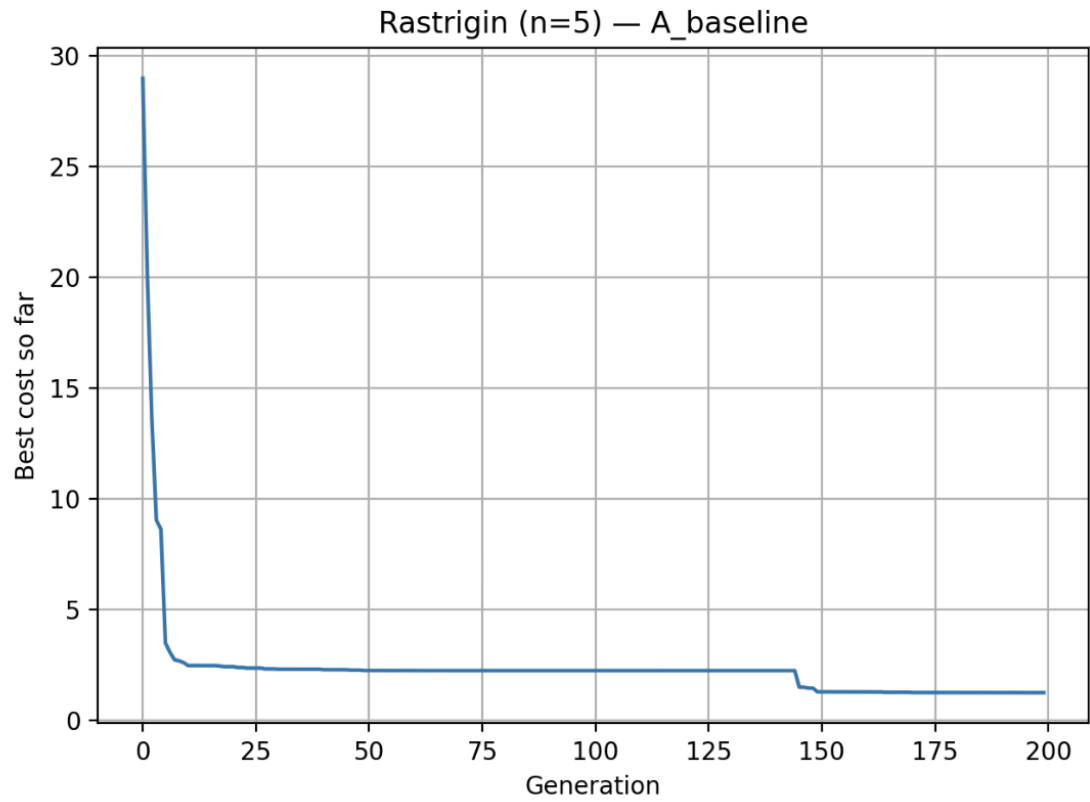Acto 1 — Qué problema resolvemos y por qué GA
Single Run

Rastrigin (n=2) — A_baseline

🧪 Population diagnostics

Rastrigin (n=5) — A_baseline

🧪 Population diagnostics

Diversity vs Gen

Mean cost vs Gen

Std cost vs Gen
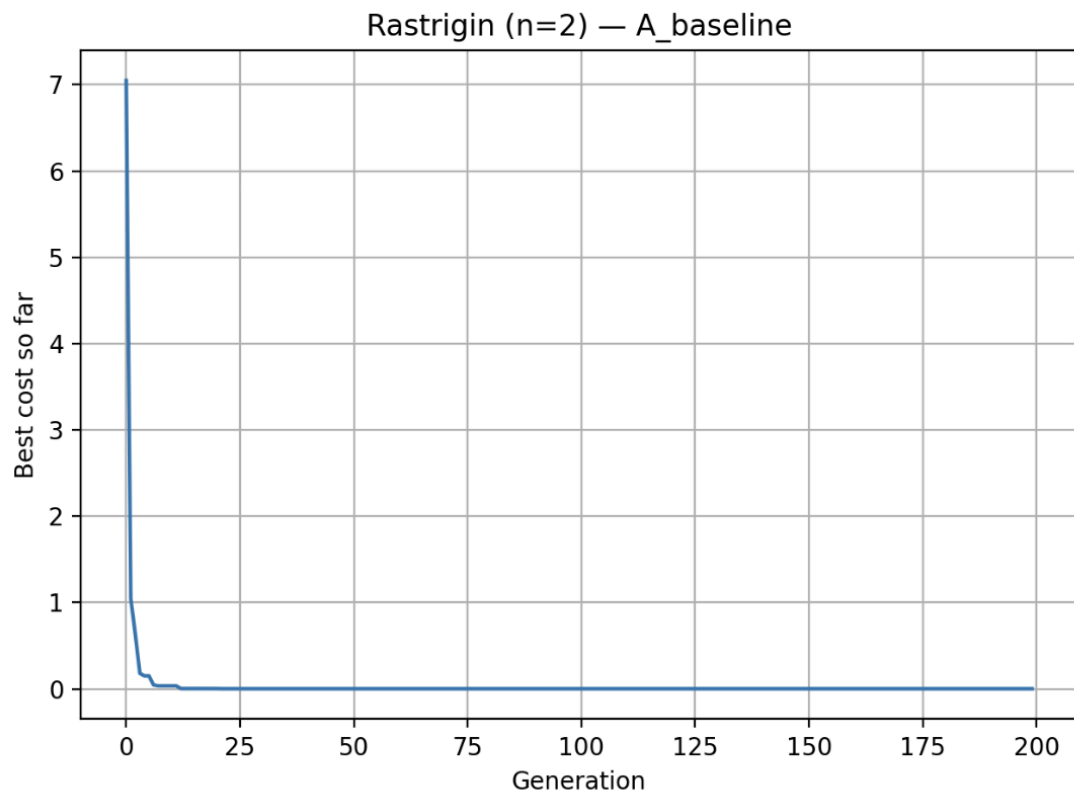
Bukin N.6 — A_baseline
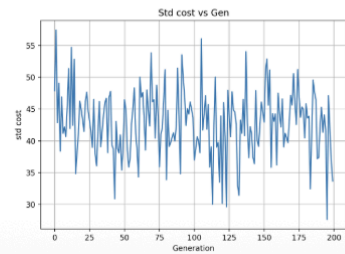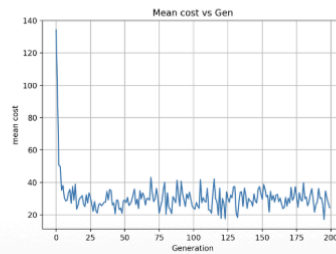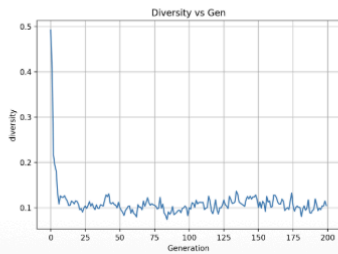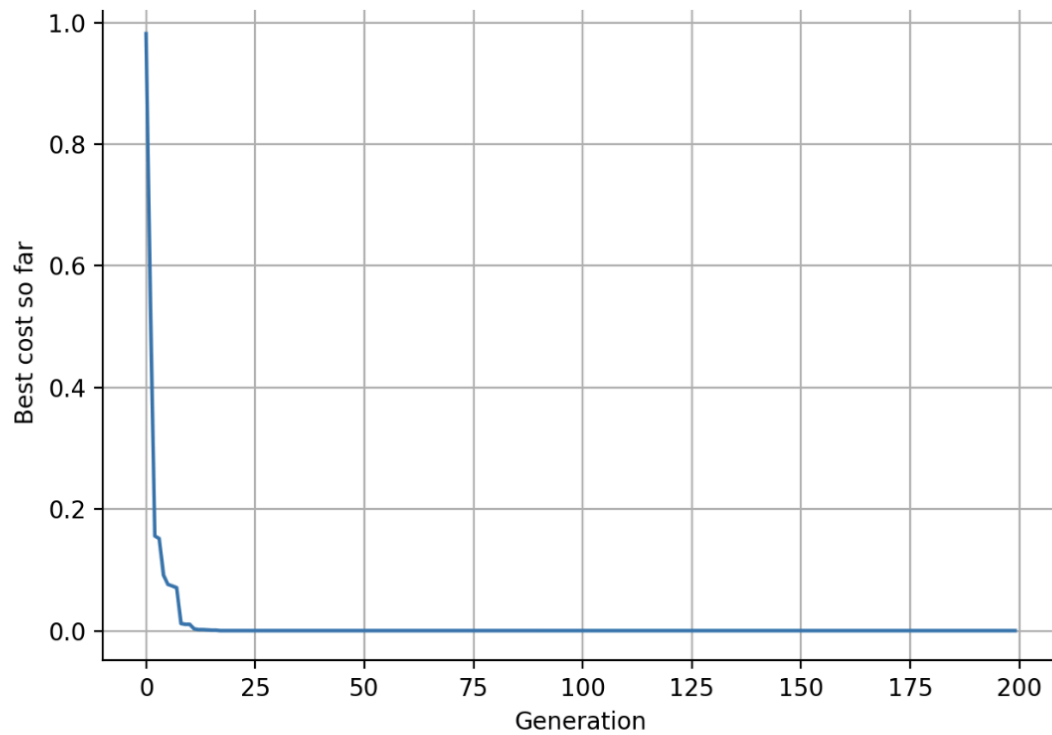
🧪 Population diagnostics

🧪 Population diagnostics

Eggholder — A_baseline
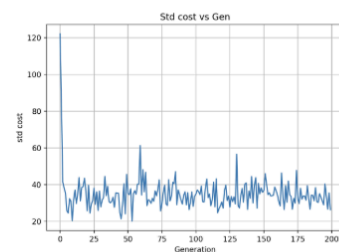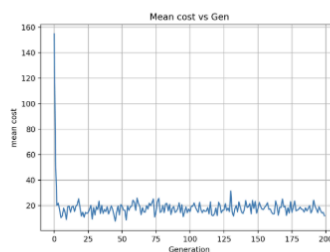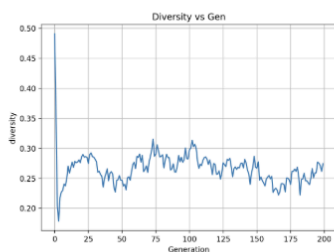
🧪 Population diagnostics
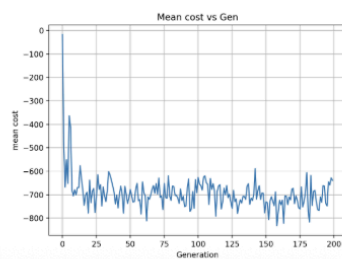
Mode: **Multi-seed (Scenario)**

📉 Convergence bands (best-so-far across seeds)

Rastrigin (n=2) — D_high_mutation (k=10)

📦 Final best_f distribution

Final best_f — D_high_mutation

🛡️ Robustness metrics

▼ {

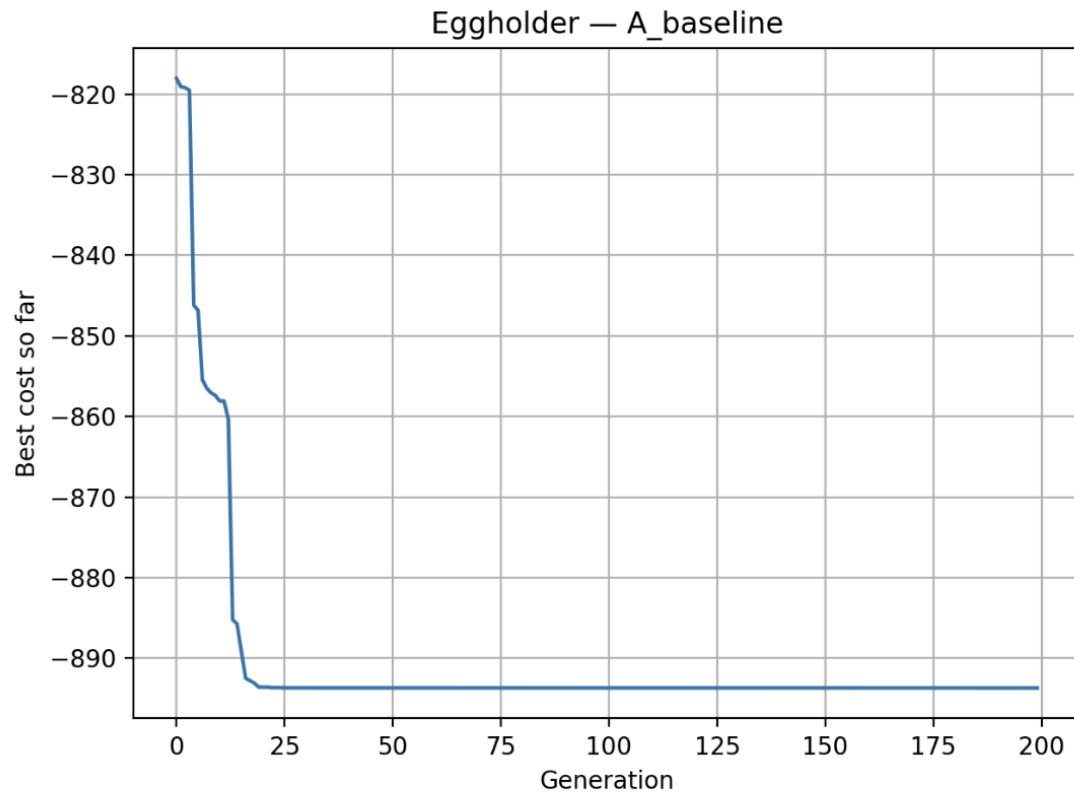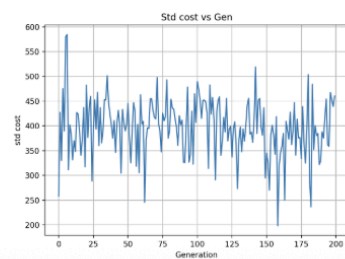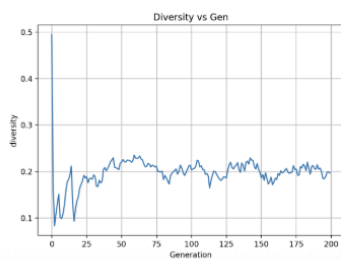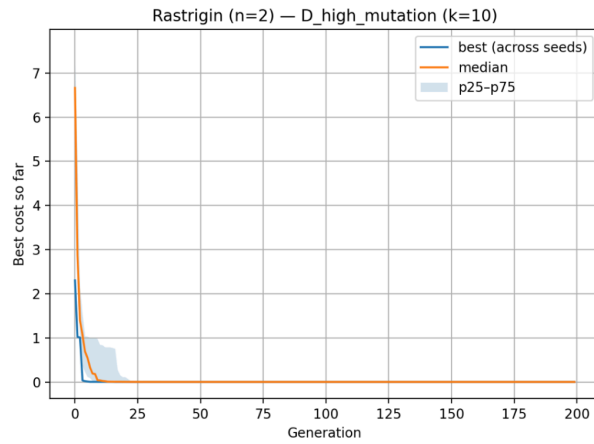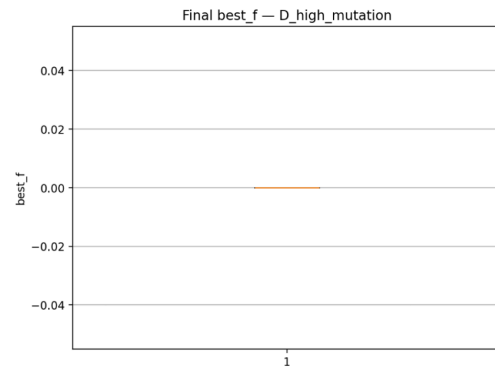# 🧪 Population diagnostics (median across seeds)

Diversity (median)

Mean cost (median)

Std cost (median)

📉 Convergence bands (best-so-far across seeds)

Rastrigin (n=5) — D_high_mutation (k=10)

📦 Final best_f distribution

Final best_f — D_high_mutation

🛡️ Robustness metrics

▼ {

🧪 Population diagnostics (median across seeds)

📉 Convergence bands (best-so-far across seeds)

Bukin N.6 — D_high_mutation (k=10)

📦 Final best_f distribution

Final best_f — D_high_mutation
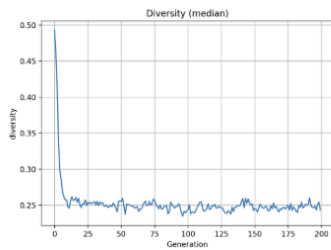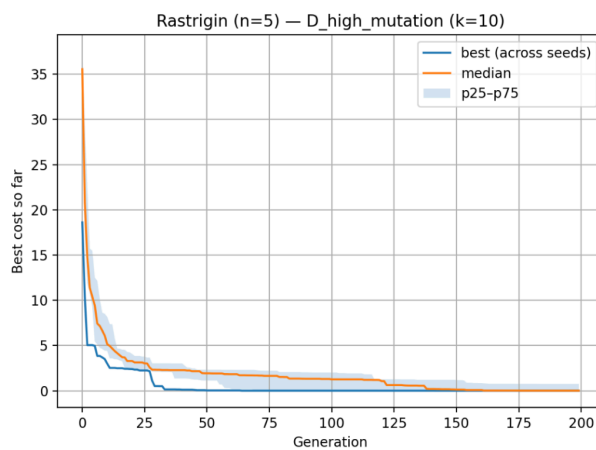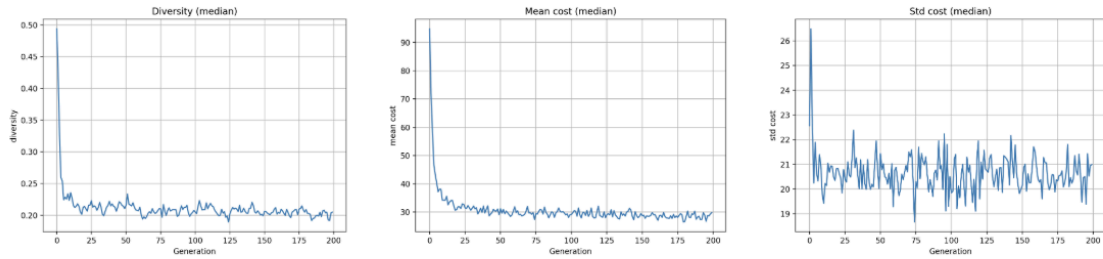
🛡️ Robustness metrics

▾ {

🧪 Population diagnostics (median across seeds)

📈 Convergence bands (best-so-far across seeds)

Himmelblau — D_high_mutation (k=10)

📦 Final best_f distribution

Final best_f — D_high_mutation

🛡️ Robustness metrics

▾ {

🧪 Population diagnostics (median across seeds)

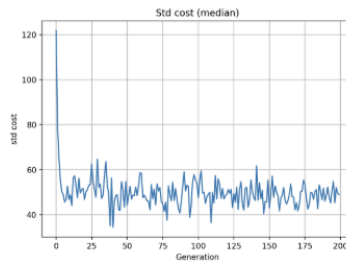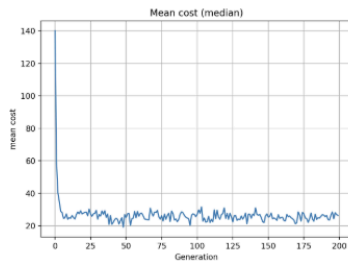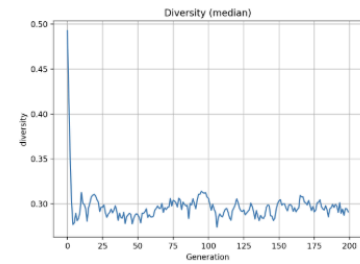Diversity (median)

Mean cost (median)

Std cost (median)

Deploy

📈 Convergence bands (best-so-far across seeds)

Eggholder — D_high_mutation (k=10)

📦 Final best_f distribution

Final best_f — D_high_mutation

🛡️ Robustness metrics

▾ {
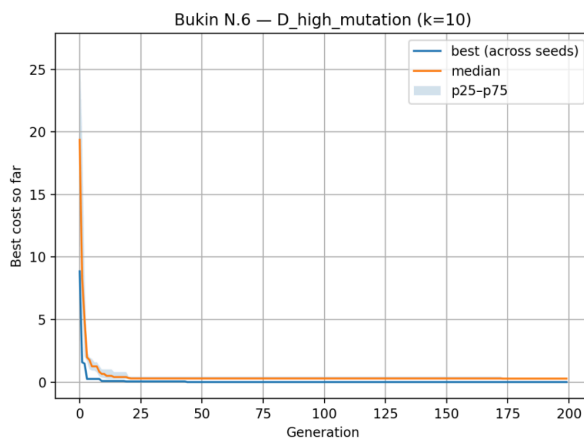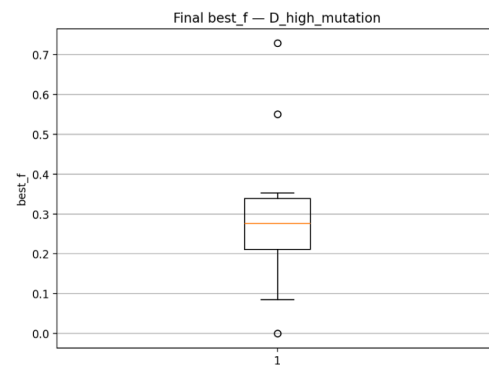
🧪 Population diagnostics (median across seeds)

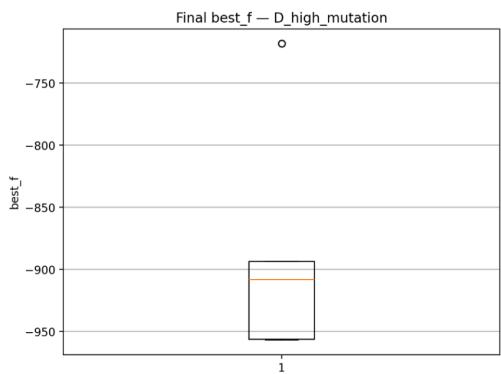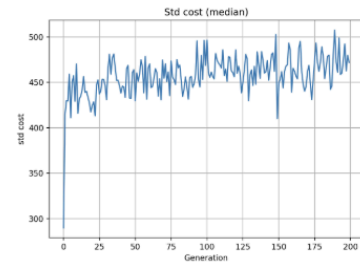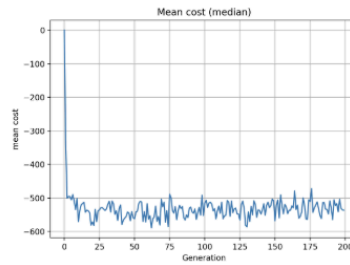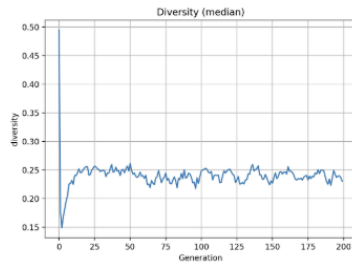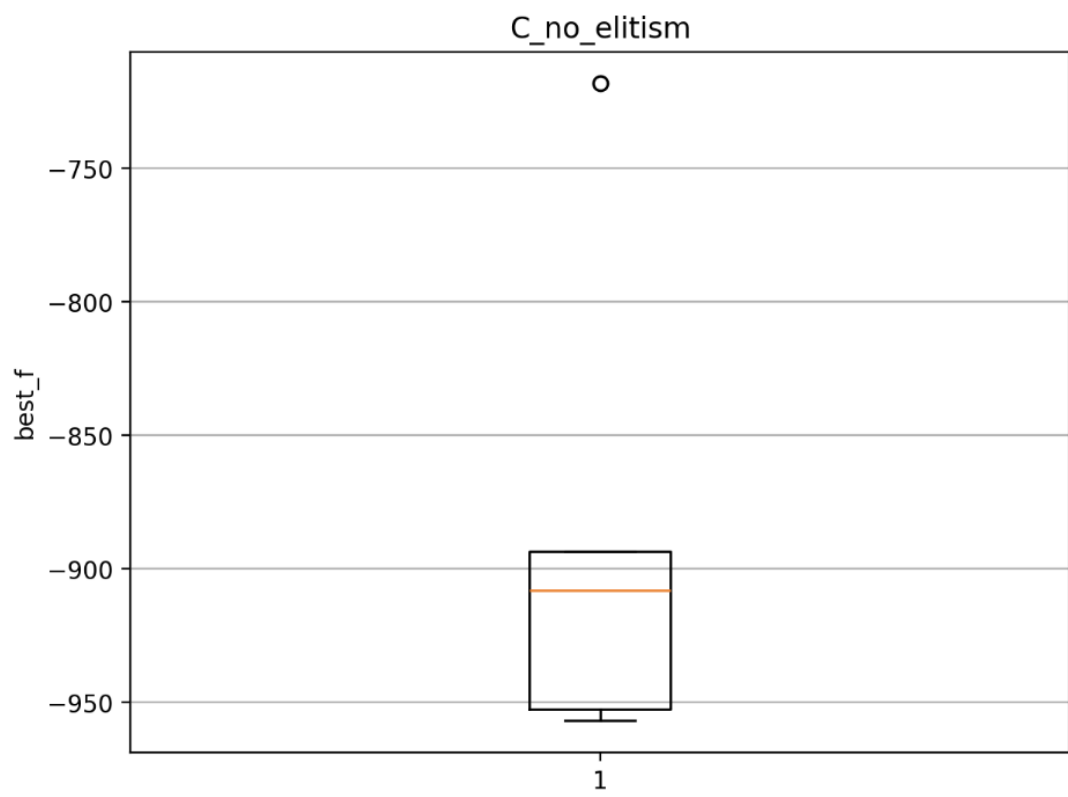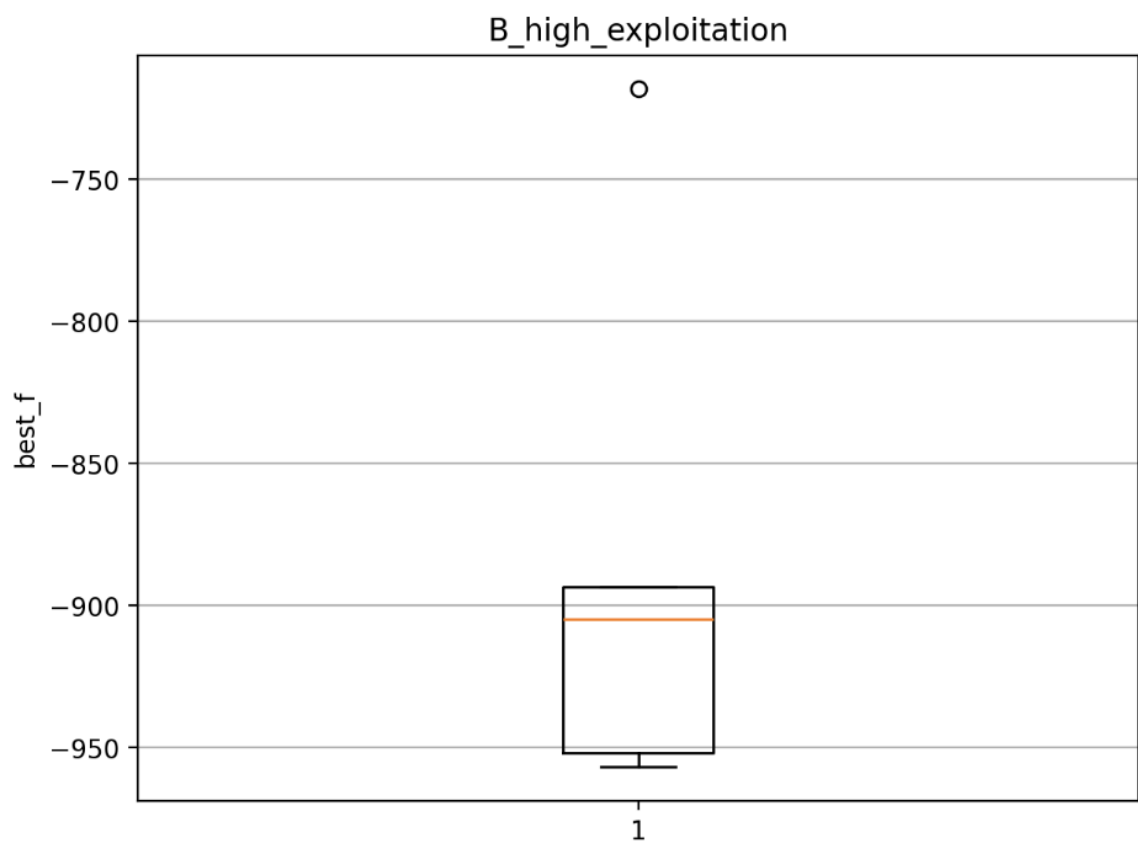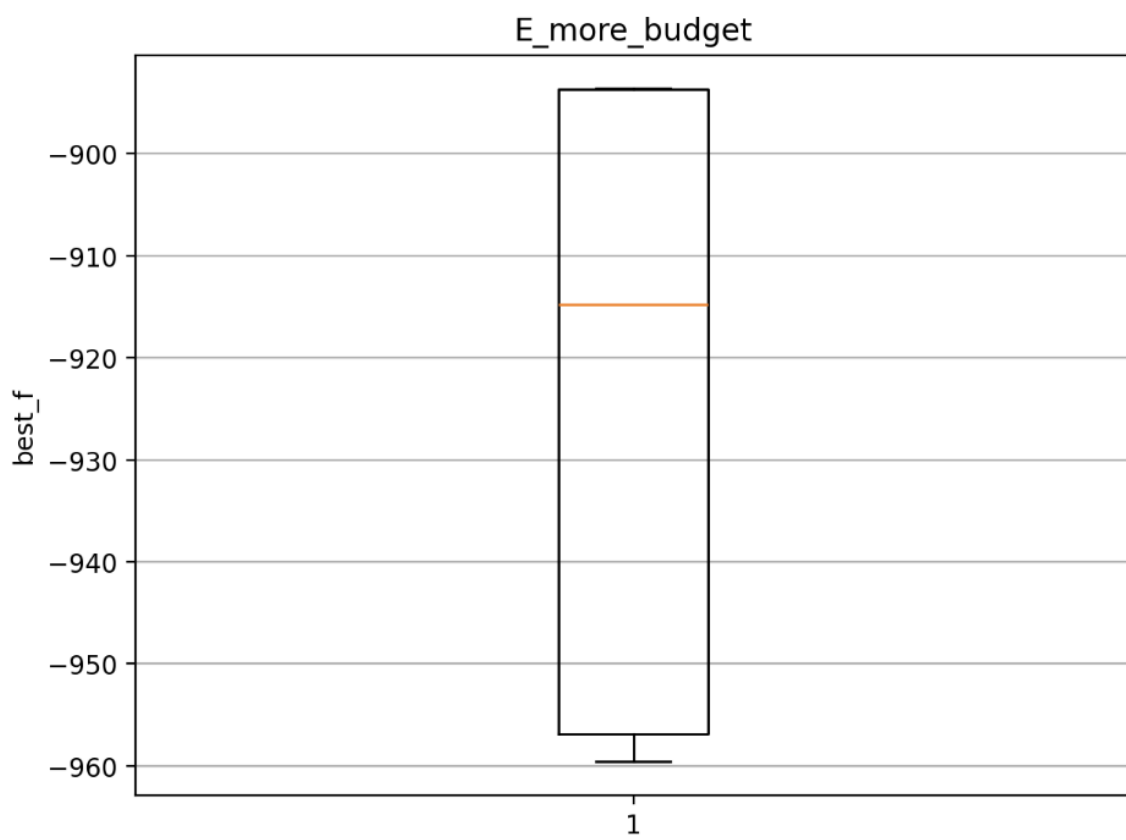**Mode: Compare Scenarios**

EGGHOLDER

📦 Boxplots (final best_f) — one per scenario

B_high_exploitation

C_no_elitism

D_high_mutation

E_more_budget

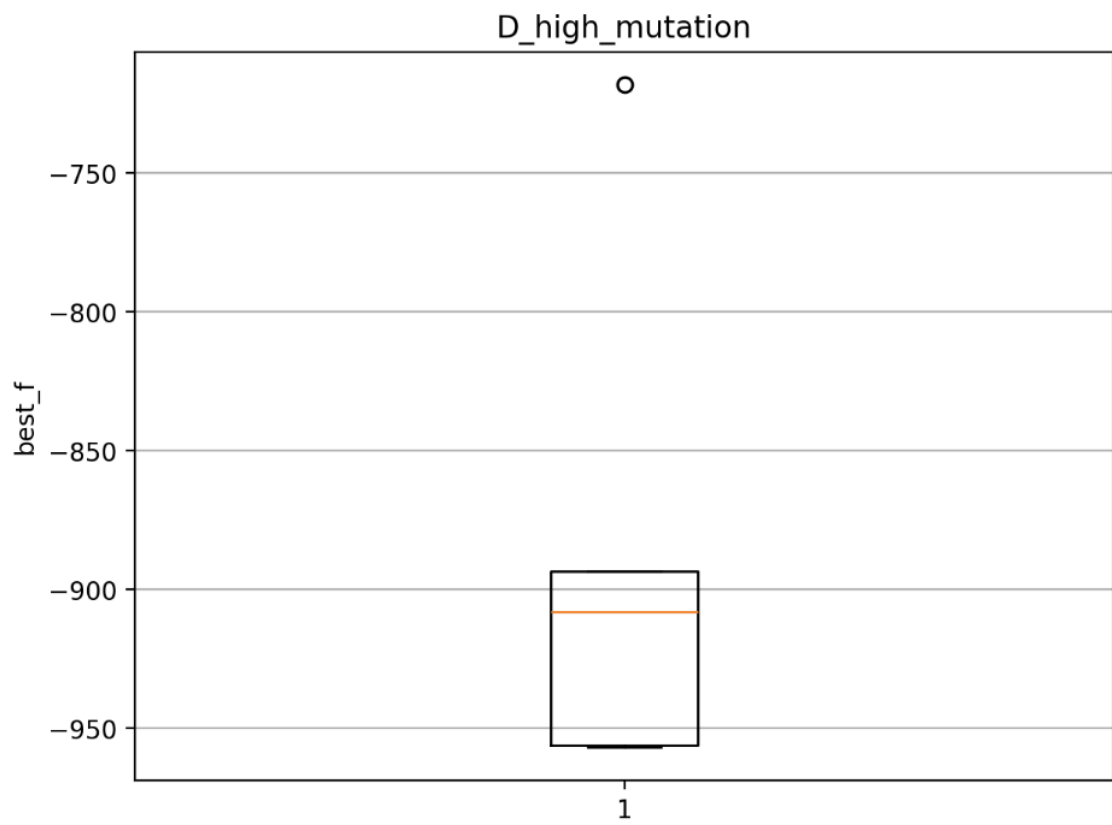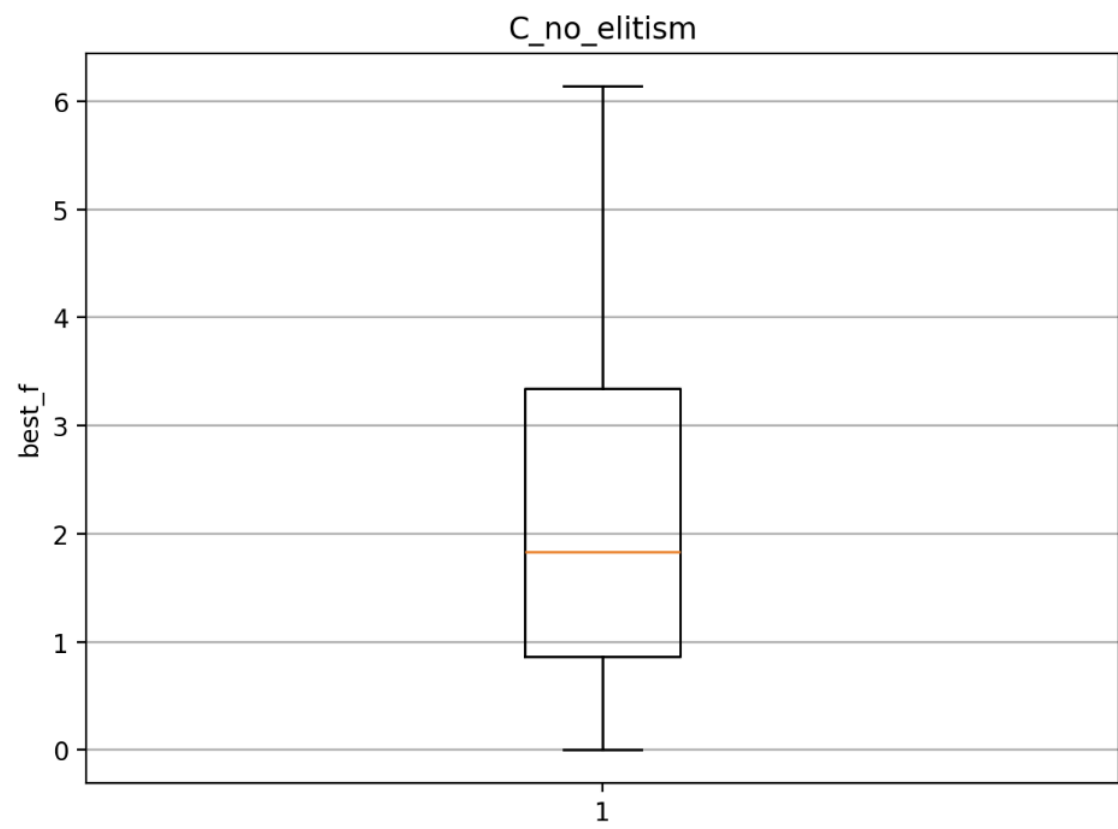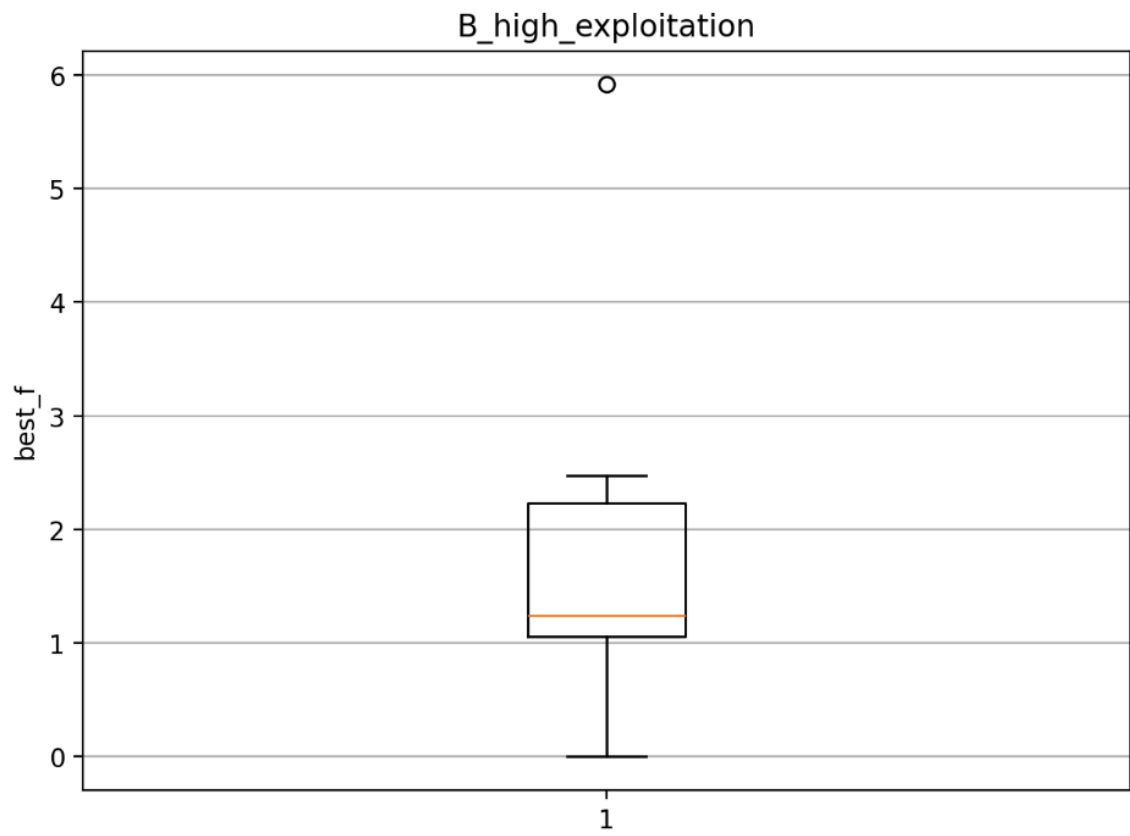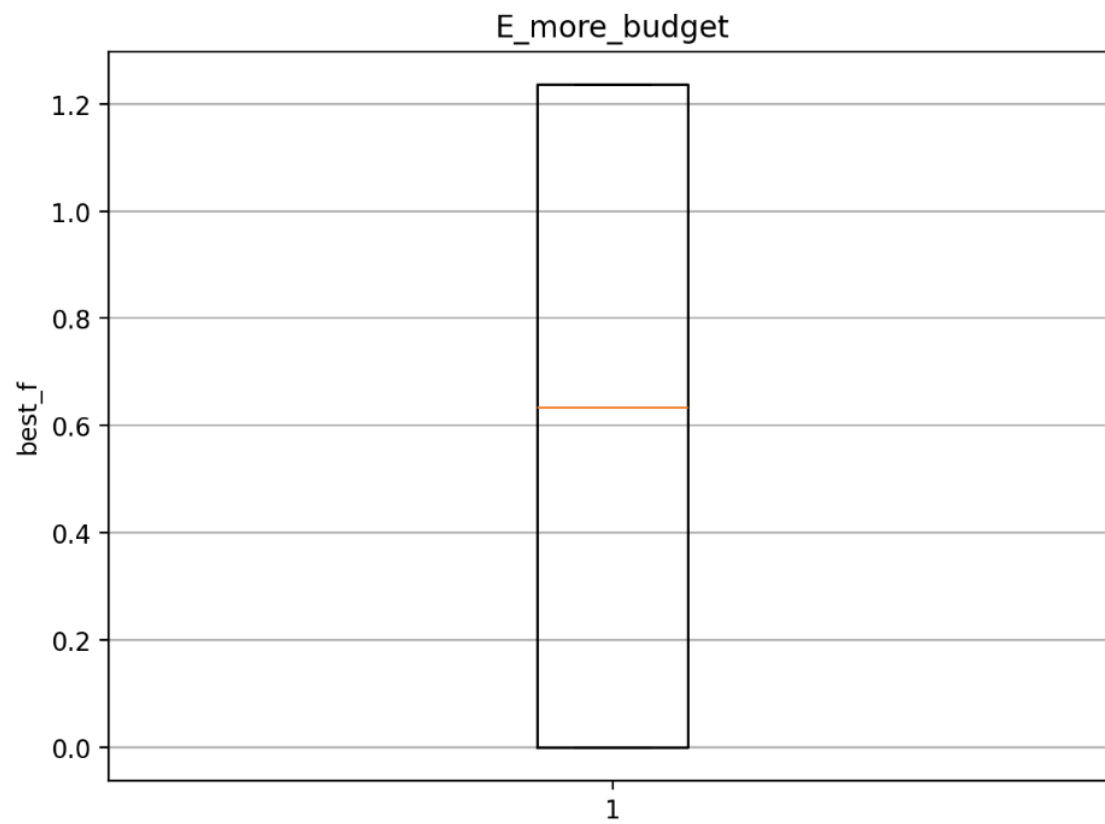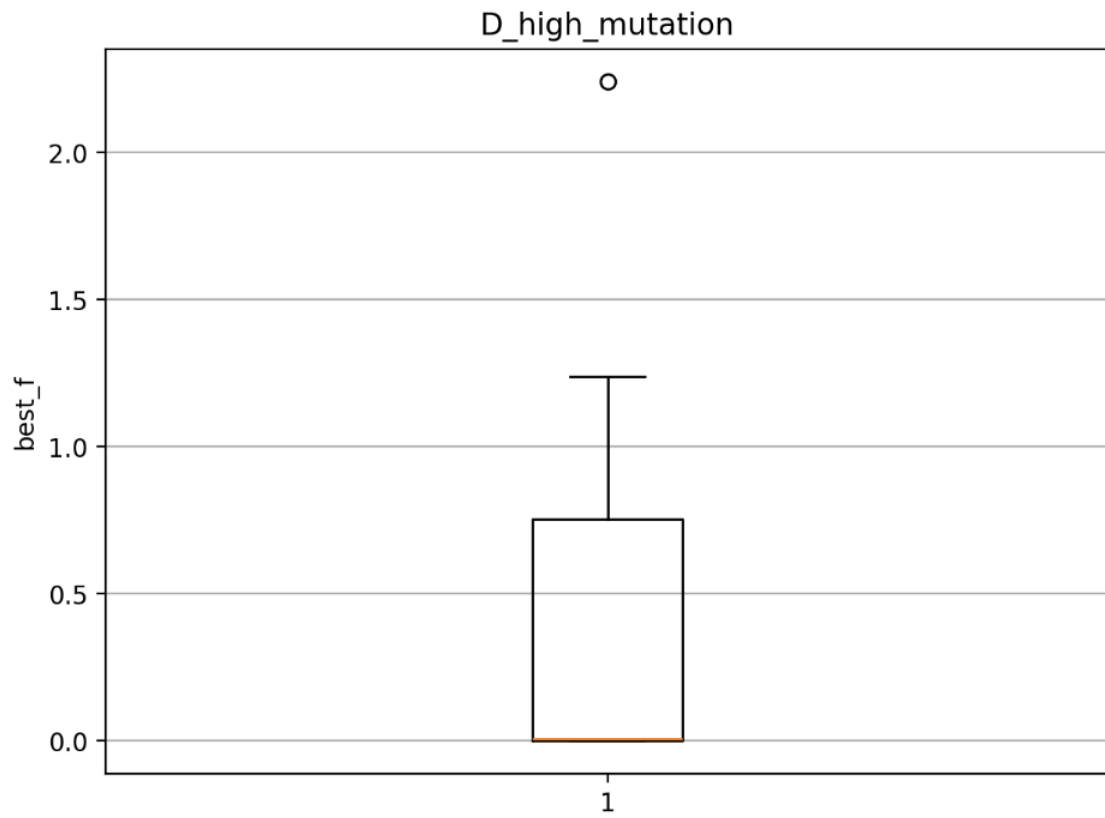# 📦 Boxplots (final best_f) — one per scenario

A_baseline

B_high_exploitation

C_no_elitism

D_high_mutation
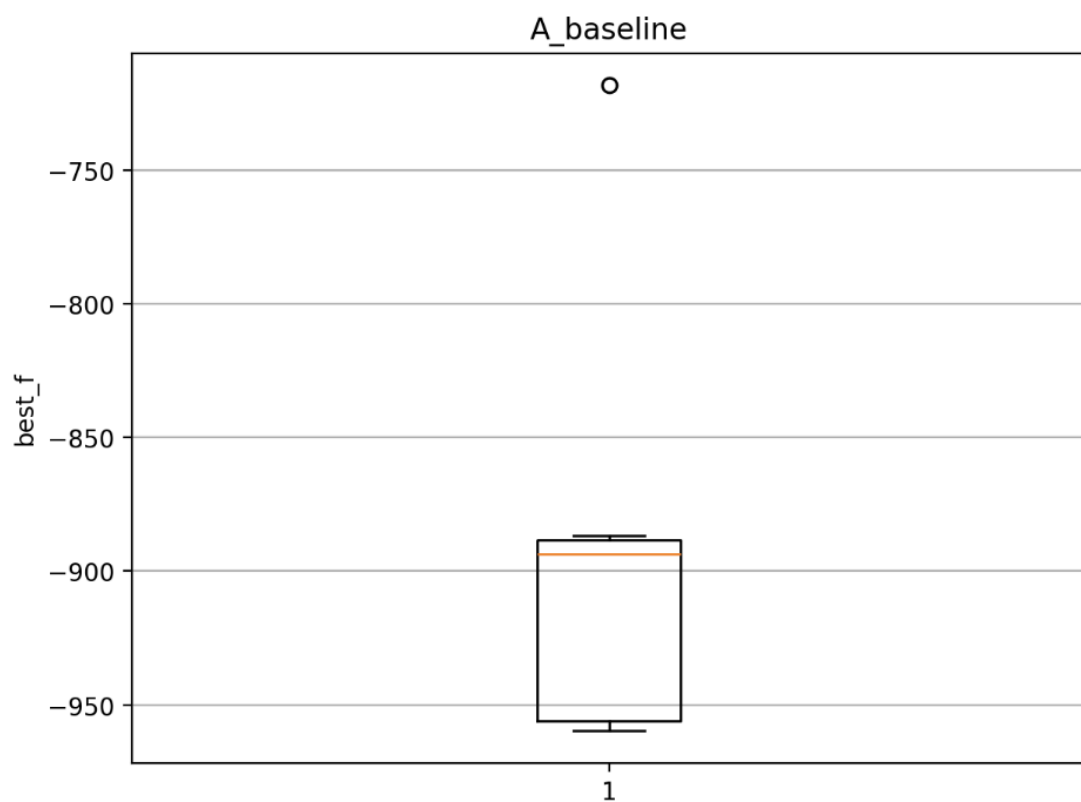
E_more_budget

Mode: Compare Functions

a_baseline

📦 Boxplots (final best_f) — per function

Rastrigin (n=2)

Himmelblau

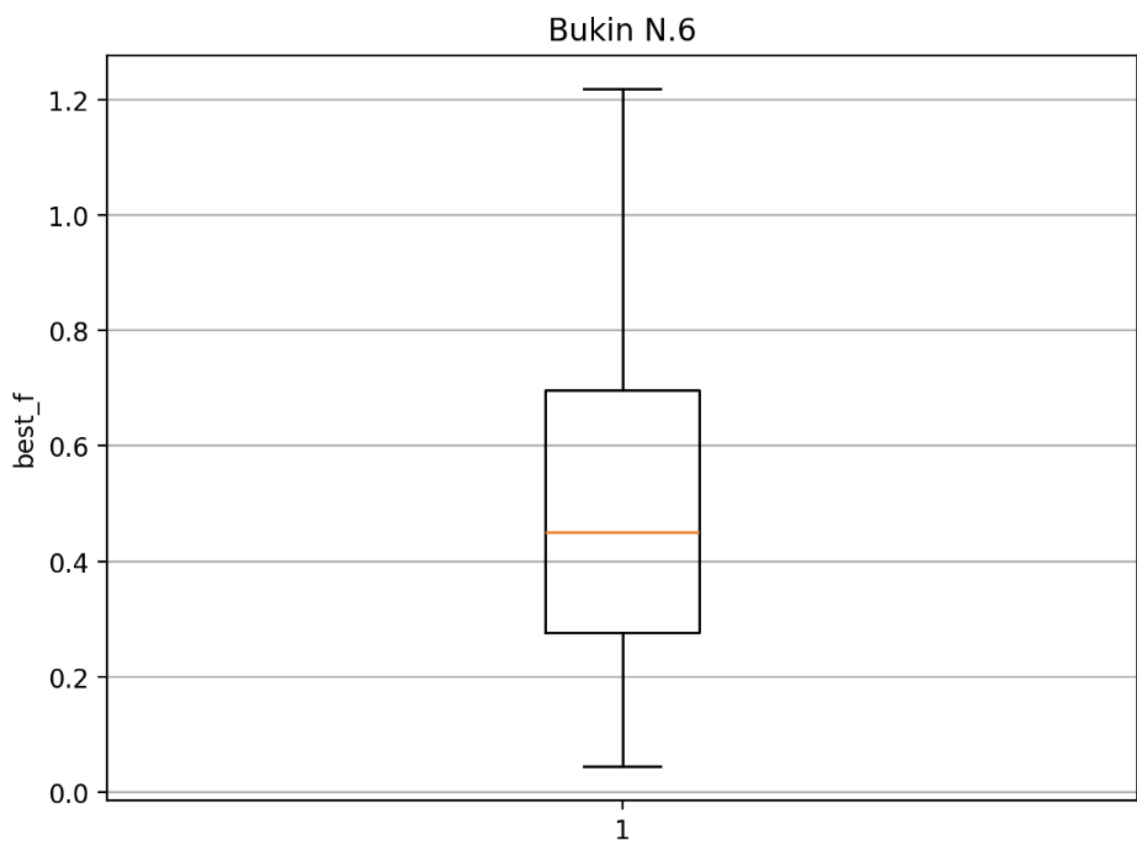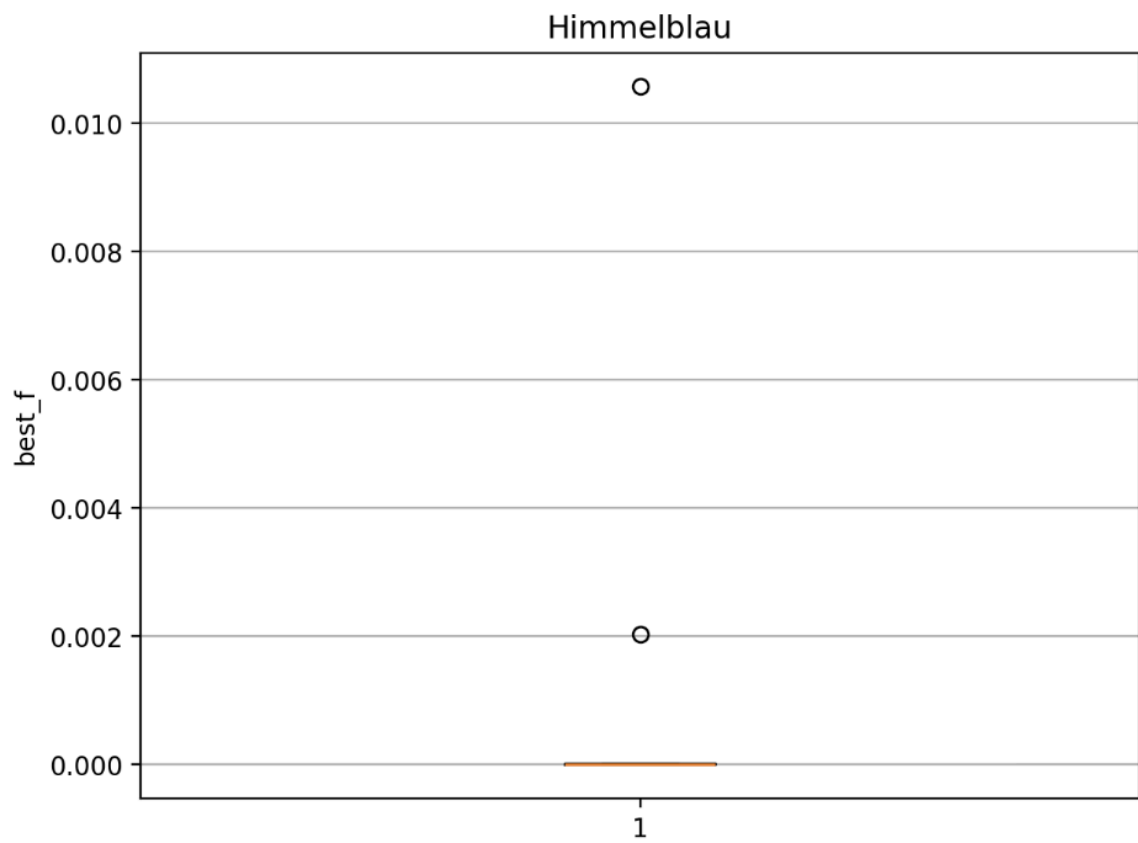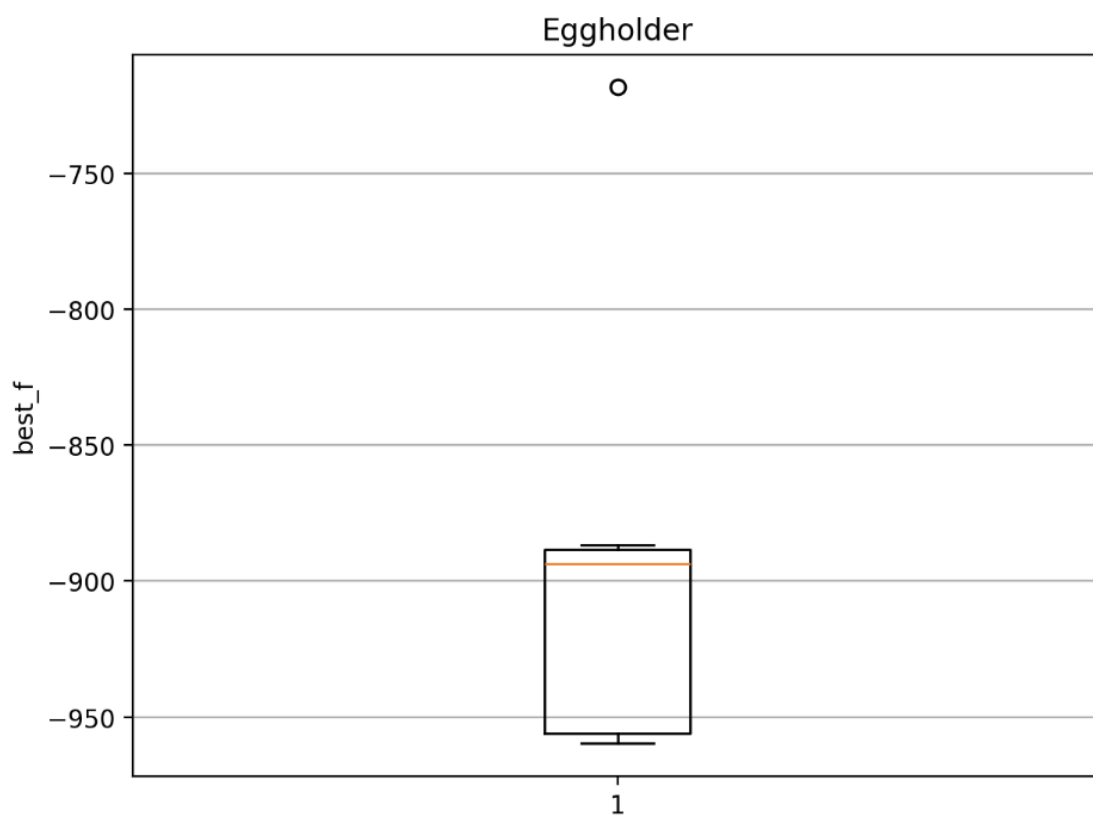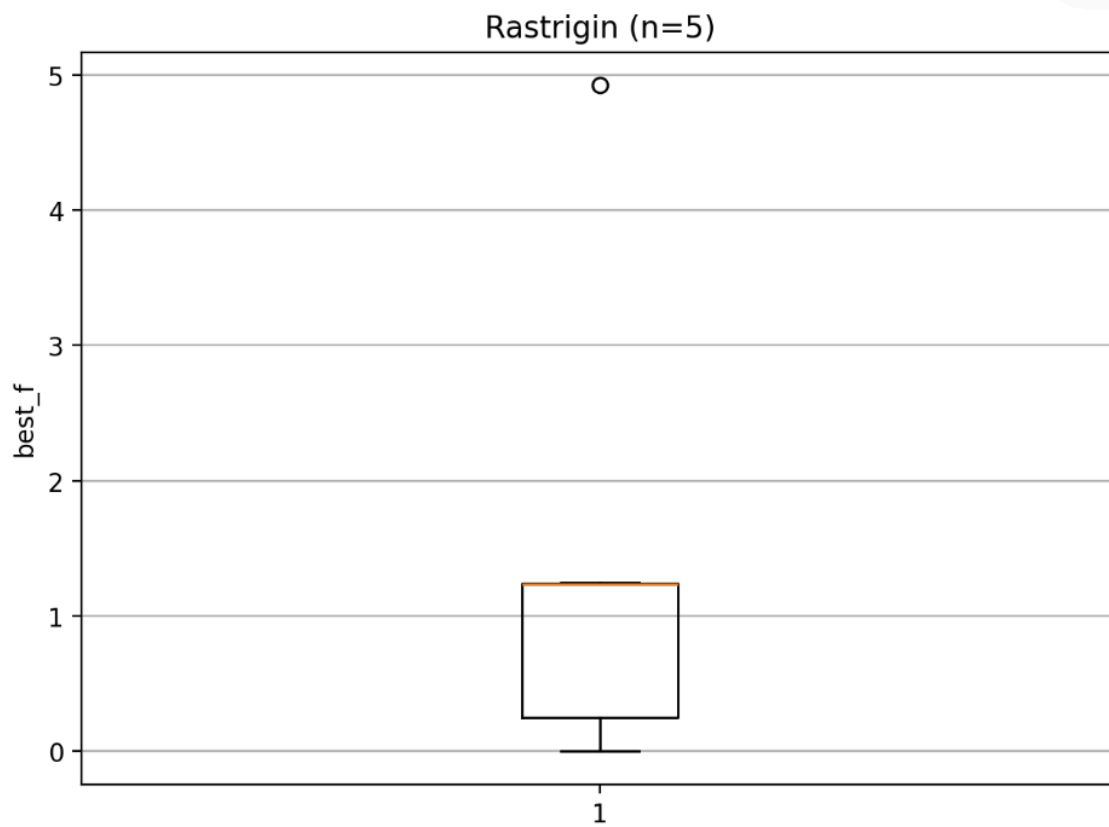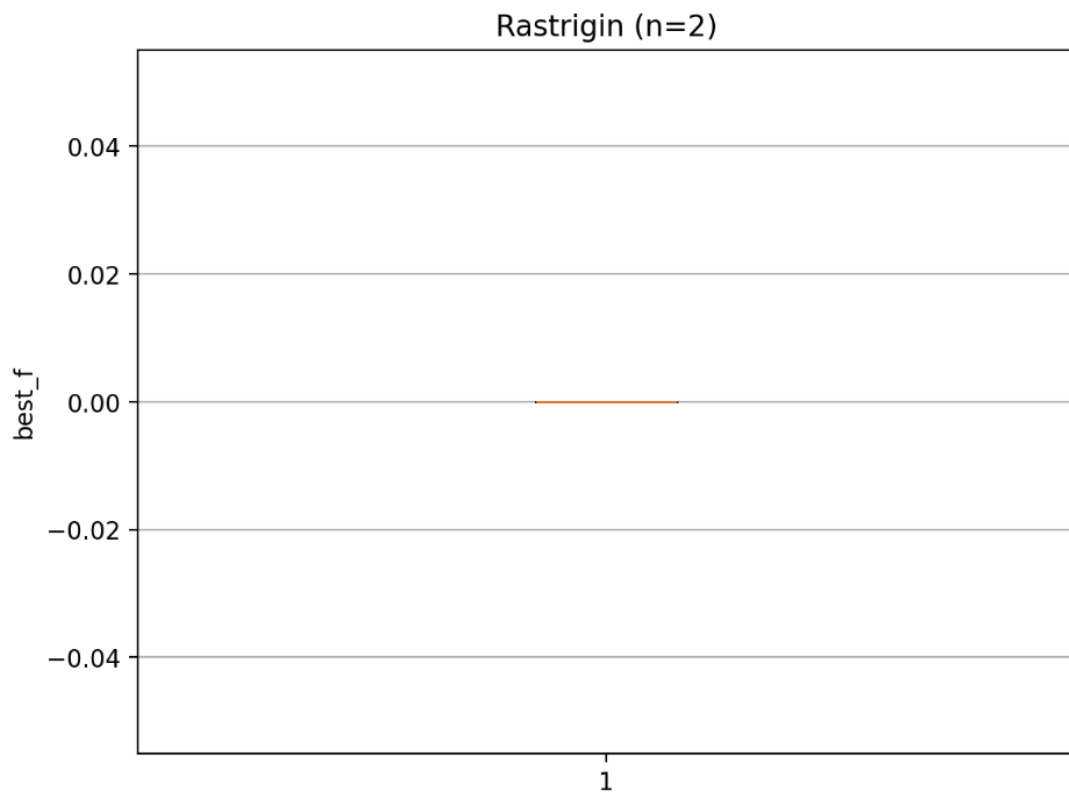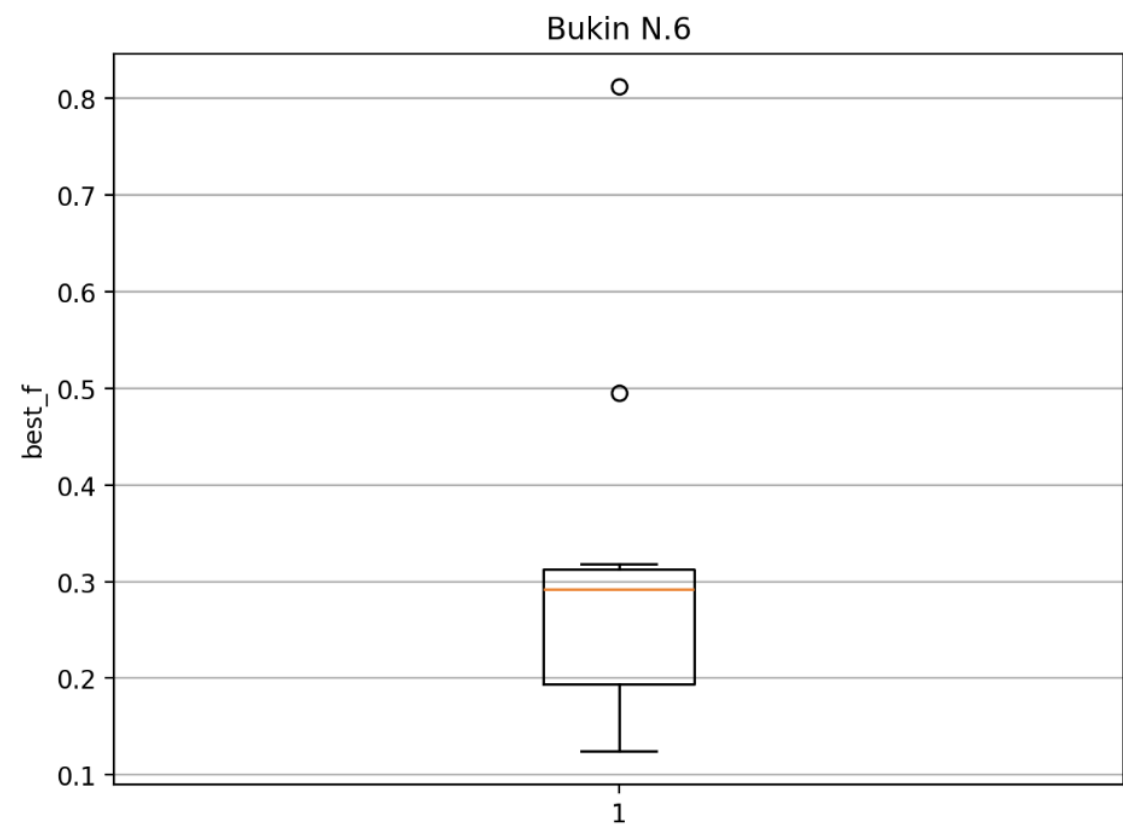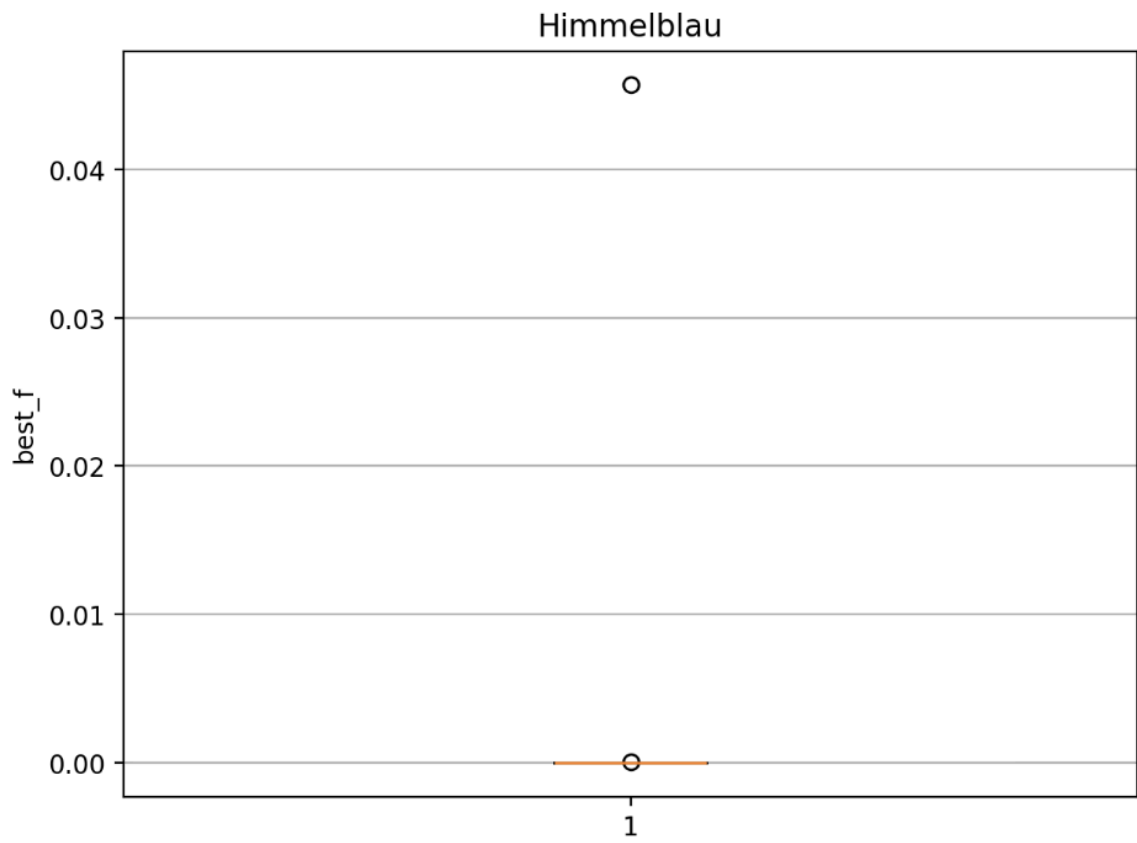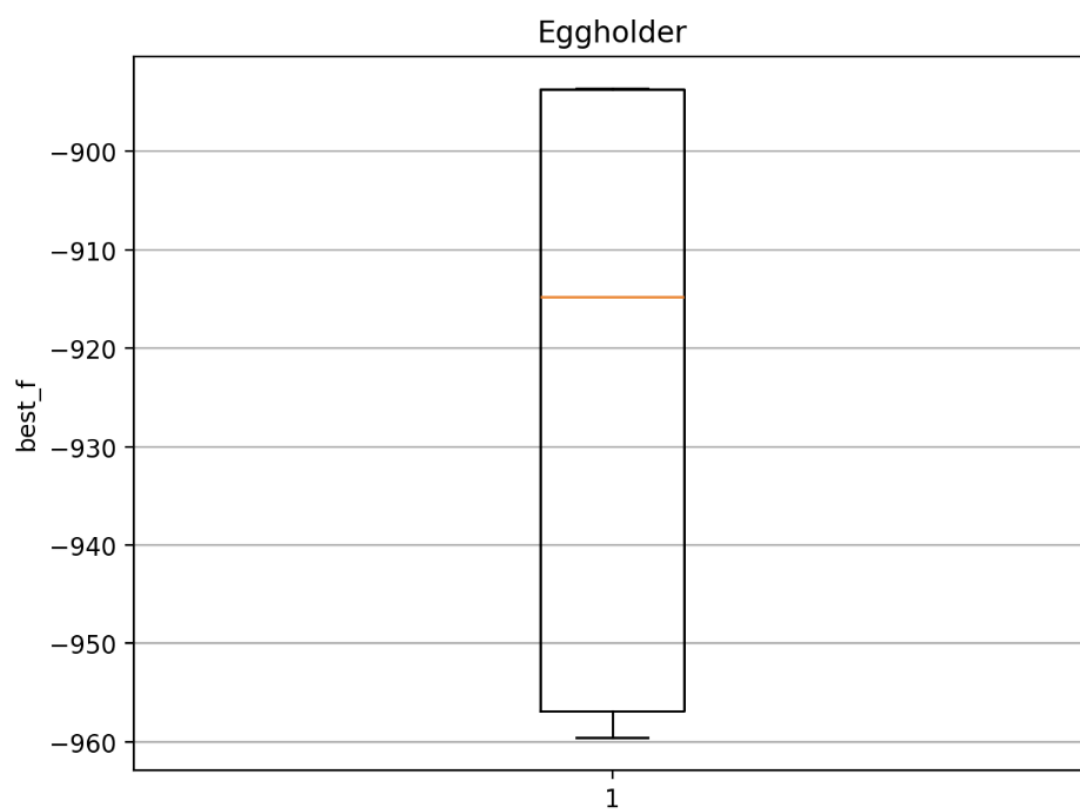**Bukin N.6**

Rastrigin (n=5)

Eggholder

e-morebudget

📦 Boxplots (final best_f) — per function

Rastrigin (n=2)

Himmelblau

Bukin N.6

Rastrigin (n=5)
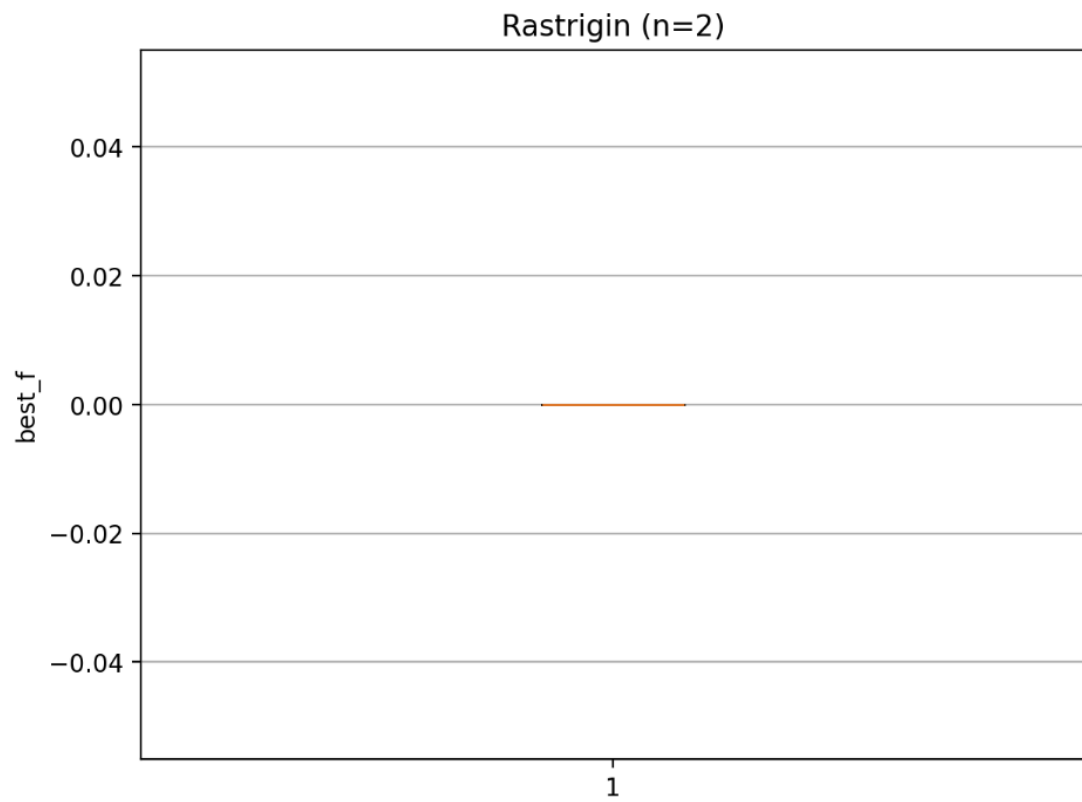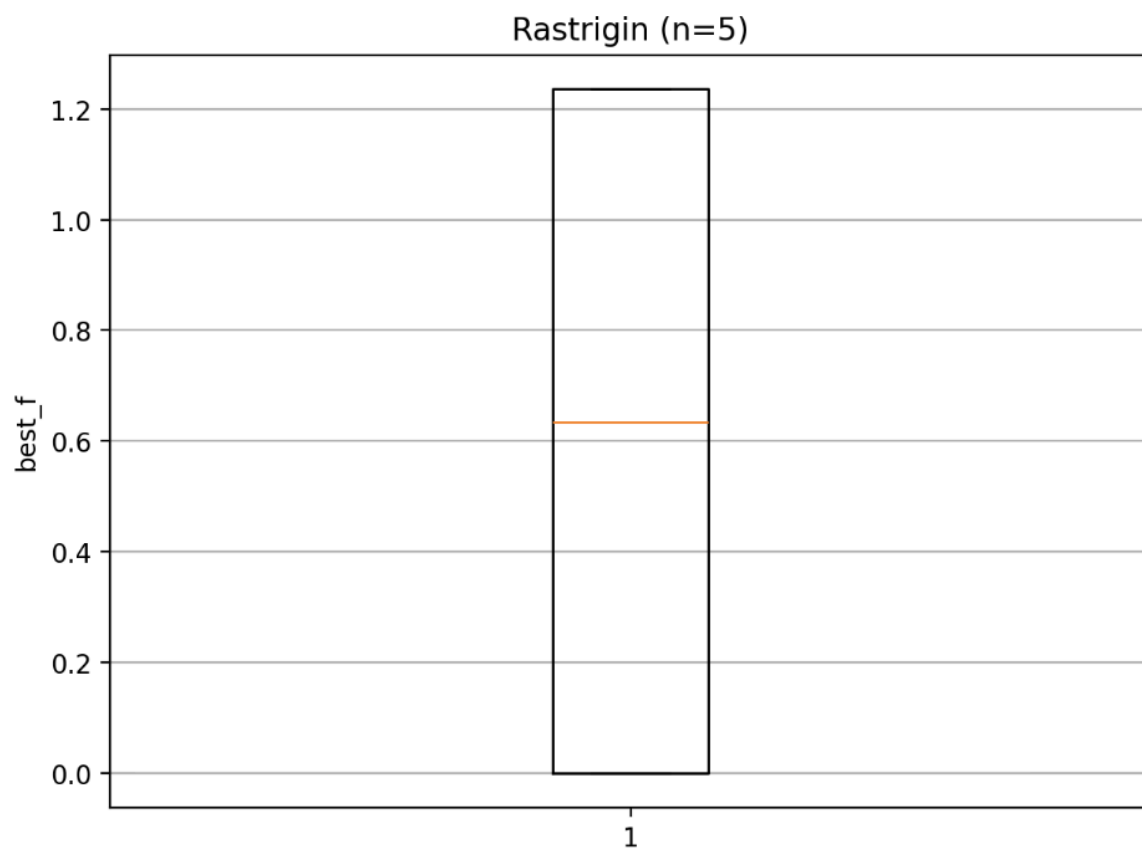
Eggholder

—------------------------ escenarios —------------------------------------
Multi-seed B y D en Eggholder para mostrar diversity y explicar por qué

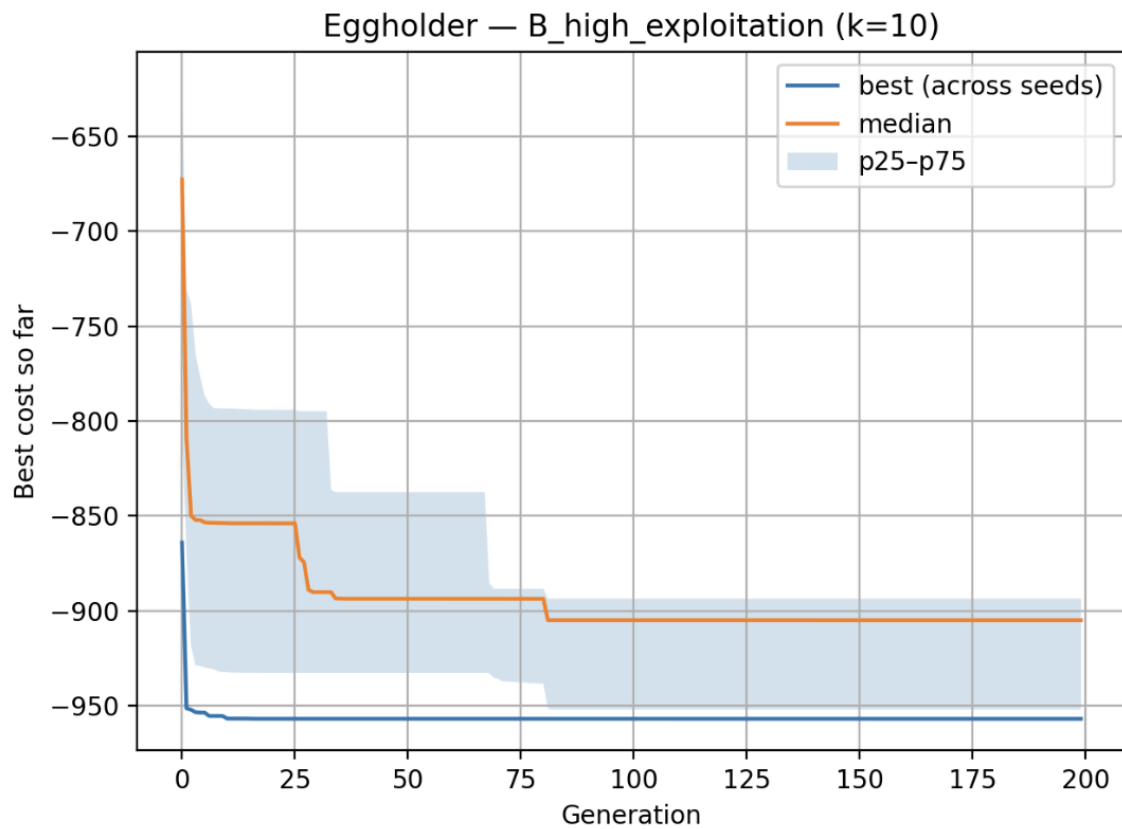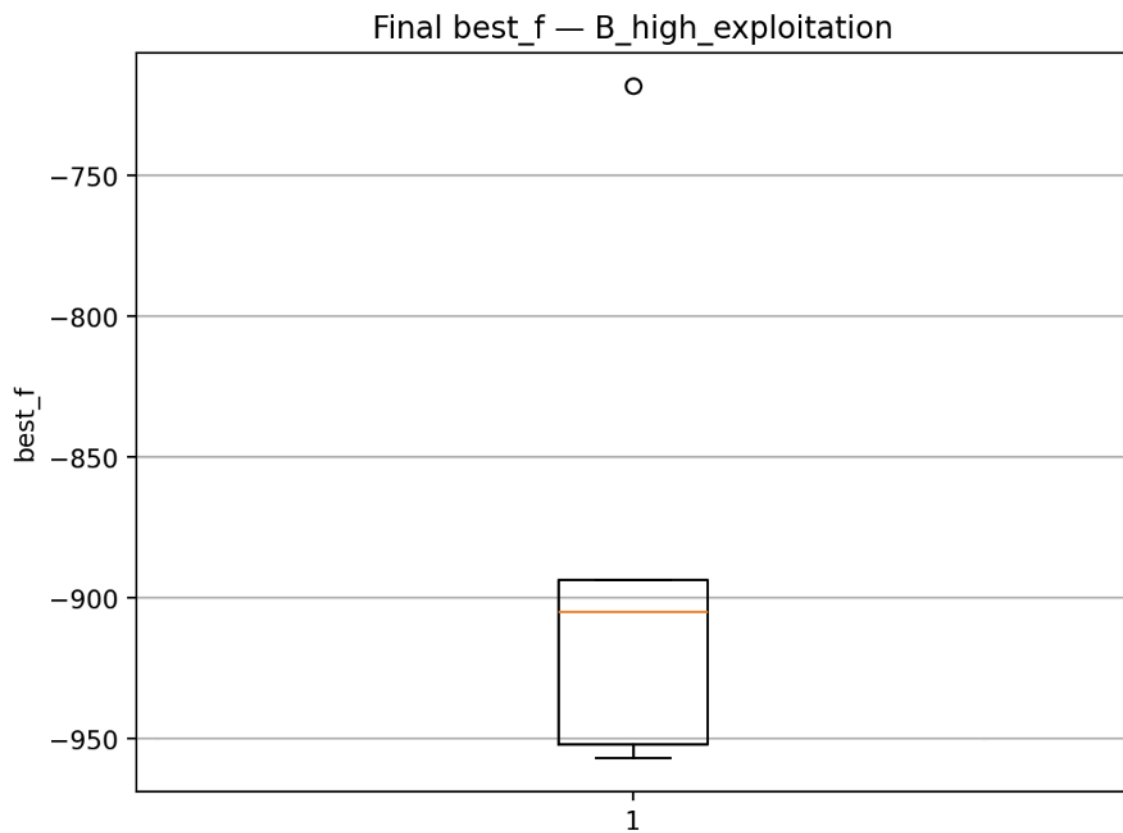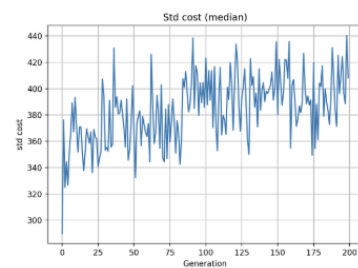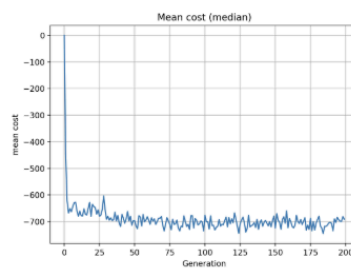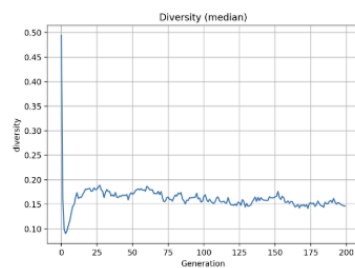# 📈 Convergence bands (best-so-far across seeds)

Eggholder — B_high_exploitation (k=10)

📦 Final best_f distribution

Final best_f — B_high_exploitation

🧪 Population diagnostics (median across seeds)

📉 Convergence bands (best-so-far across seeds)

Eggholder — D_high_mutation (k=10)

📦 Final best_f distribution

Final best_f — D_high_mutation

🧪 Population diagnostics (median across seeds)