

procedure SGA($f : \mathbb{X} \mapsto \mathbb{R}^+$, ps , cr)

▷ for maximization!

for $j \in 1 \dots ps$ do ▷ random initial population
randomly sample $S_0[j].x$ from \mathbb{X} ; $S_0[j].y \leftarrow f(S_0[j].x)$;