

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} ; $S_0[j].y \leftarrow f(S_0[j].x)$;

for $i \in 0 \dots \infty$ **do**

▷ iterate “generations”