Input Program

```
union(
  rect(0.5, 0.7)
  diff(
    circle(
    rect(0.
  )
)
```

Parameter Optimization

```
union(
  rect(0.5, 0.7)
  diff(
    circle(0.4, 0.3)
    rect(0.1, 0.2)
  )
)
```

Code Pruning

```
union(
  rect(0.5, 0.7)
  diff(
    circle(0.4, 0.3)
    rect(0.8, 0.3)
  )
)
```

Code Grafting

```
union(
  rect(0.5, 0.7)
  union(
    rect(0.4, 0.3)
    circle(0.8, 0.3)
  )
)
```

Cache

Target Shape