

```
BLOCK entry {
  slope <- $('-Infinity' :: float$[];
  GOTO inter0
}
```

```
BLOCK inter0 {
  cost <- $('-Infinity' :: float$[];
  GOTO inter1
}
```

```
BLOCK inter1 {
  yield <- $SELECT abs(p.c)
    FROM endpoints AS p
    WHERE p.x = {0}
    AND p.y = {1}$[pivot_x, pivot_y];
  GOTO inter2
}
```

```
BLOCK inter2 {
  GOTO loop_head
}
```

```
BLOCK loop_head {
  current <- $SELECT {{x: e.x, y: e.y, cost: actual_cost, slope: rot}}
    FROM endpoints AS e,
    LATERAL (SELECT (e.x - {0}) :: float / (e.y - {1}),
      CASE WHEN pivot_y > e.y THEN -e.c ELSE e.c END) AS _(rot, actual_cost)
    WHERE e.y <> {1}
    AND (rot > {2} OR
      rot = {2} AND actual_cost < {3})
    ORDER BY rot, actual_cost DESC
    LIMIT 1$[pivot_x, pivot_y, slope, cost];
  GOTO inter3
}
```

```
BLOCK inter3 {
  IF ${0} IS NULL$[current]
  THEN GOTO truthy0
  ELSE GOTO falsey0
}
```

```
BLOCK truthy0 {
  EMIT ${0}$[well];
  GOTO inter4
}
```

```
BLOCK falsey0 {
  GOTO merge0
}
```

```
BLOCK inter4 {
  STOP
}
```

```
BLOCK merge0 {
  slope <- ${0}.slope$[current];
  GOTO inter5
}
```

```
BLOCK inter5 {
  cost <- ${0}.cost$[current];
  GOTO inter6
}
```

```
BLOCK inter6 {
  yield <- ${0} + {1}$[yield, cost];
  GOTO inter7
}
```

```
BLOCK inter7 {
  IF ${0} IS NULL OR {1} > {0}.yield$[well, yield]
  THEN GOTO truthy1
  ELSE GOTO falsey1
}
```

```
BLOCK truthy1 {
  well <- ${{x: {0}.x, y: {0}.y, yield: {1}}}$[current, yield];
  GOTO inter8
}
```

```
BLOCK inter8 {
  GOTO merge1
}
```

```
BLOCK falsey1 {
  GOTO merge1
}
```

```
BLOCK merge1 {
  JUMP loop_head
}
```