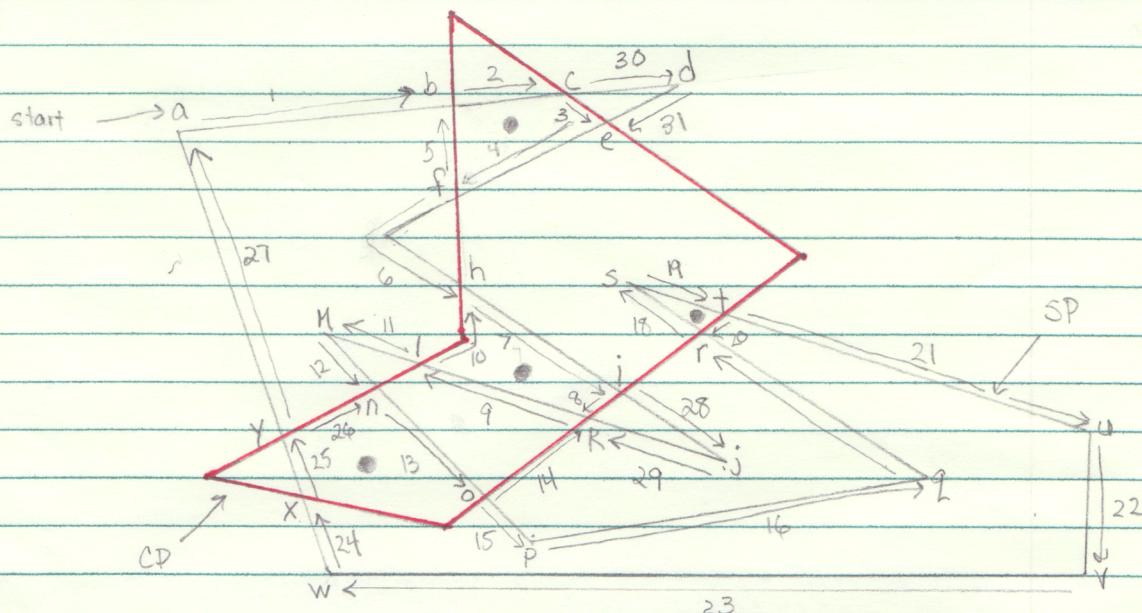


Problem #1 Weiler-Atherton 2D Clipping

* Portions with dot (•) are clipped



- 1) First interesting event: $SP \cap CP$ at b \rightarrow continue on SP
- 2) At point c we try to exit CP \rightarrow insert c onto stack [c] \rightarrow go along CP in CW direction
- 3) At point e we reach SP again \rightarrow continue on SP in CW direction
- 4) At point f we try to exit CP \rightarrow insert f onto stack [f] [c] \rightarrow go along CP in CW direction
- 5) We reach b and we are stuck \rightarrow pop f from stack [c] \rightarrow go along SP from f in CW direction
- 6) At point h, $SP \cap CP$ \rightarrow continue on SP
- 7) At point i we try to exit CP \rightarrow insert i onto stack [i] [c] \rightarrow go along CP in CW direction
- 8) At point K we reach SP again \rightarrow continue on SP in CW dir
- 9) At point l we try to exit CP \rightarrow insert l onto stack [l] [i] [c] \rightarrow go along CP in CW dir
- 10) We reach h and we're stuck \rightarrow pop l from stack [i] [c] \rightarrow go along SP from l in CW dir

- 11) At point M → continue on SP
- 12) At point n, SP ∩ CP → continue on SP
- 13) At point o we try to exit CP → insert o onto stack
→ go along CP in CW dir
- 14) We reach R and we are stuck → pop o from stack
→ go along SP from o in CW dir
- 15) At point p → continue on SP
- 16) At point q → continue on SP
- 17) At point r, SP ∩ CP → continue on SP
- 18) At point s
- 19) At point t we try to exit CP → insert t onto stack
→ go along CP in CW dir.
- 20) We reach r and we are stuck → pop t from stack
→ go along SP from t in CW dir
- 21) At point u → continue on SP
- 22) At point v → continue on SP
- 23) At point w → continue on SP
- 24) At point x, SP ∩ CP → continue on SP
- 25) At point y we try to exit CP → insert y onto stack
→ go along CP in CW dir.
- 26) We reach n and we're stuck → pop y from stack
→ go along SP from y in CW dir
- 27) We reach a and we're stuck → pop i from stack
→ go along SP from i in CW dir
- 28) At point j → continue on SP
- 29) We reach k and we're stuck → pop c from stack || (empty)
→ go along SP from c in CW dir
- 30) At point d → continue on SP
- 31) We reach e and we're stuck, but stack is empty STOP