**transcript of my program solving Sammy's Sport Shop:**

0: C1B C1Y -O1Y

1: C2B C2W -O2W

2: C3B C3Y -O3Y

3: -C1W -L1W

4: -C2Y -L2Y

5: -C3B -L3B

6: C1B C1W C1Y

7: C2B C2W C2Y

8: C3B C3W C3Y

9: -C1Y -C2Y

10: -C1Y -C3Y

11: -C1W -C2W

12: -C1W -C3W

13: -C1B -C2B

14: -C1B -C3B

15: O1Y

16: O2W

17: O3Y

18: L1W

19: L2Y

20: L3B

21: -C2W

iteration 1, queue size 32, resolution on: 3 18

resolving -C1W V -L1W and L1W

22: -C1W generated from 3 18

iteration 2, queue size 32, resolution on: 4 19

resolving -C2Y V -L2Y and L2Y

23: -C2Y generated from 4 19

iteration 3, queue size 32, resolution on: 5 20

resolving -C3B V -L3B and L3B

24: -C3B generated from 5 20

iteration 4, queue size 33, resolution on: 1 16

resolving C2B V C2W V -O2W and O2W

25: C2B V C2W generated from 1 16

iteration 5, queue size 35, resolution on: 21 25

resolving -C2W and C2B V C2W

26: C2B generated from 21 25

iteration 6, queue size 35, resolution on: 13 26

resolving -C1B V -C2B and C2B

27: -C1B generated from 13 26

iteration 7, queue size 36, resolution on: 6 22

resolving C1B V C1W V C1Y and -C1W

28: C1B V C1Y generated from 6 22

iteration 8, queue size 40, resolution on: 27 28

resolving -C1B and C1B V C1Y

29: C1Y generated from 27 28

iteration 9, queue size 41, resolution on: 9 29

resolving -C1Y V -C2Y and C1Y

30: -C2Y generated from 9 29

iteration 10, queue size 40, resolution on: 10 29

resolving -C1Y V -C3Y and C1Y

30: -C3Y generated from 10 29

iteration 11, queue size 41, resolution on: 7 23

resolving C2B V C2W V C2Y and -C2Y

31: C2B V C2W generated from 7 23

iteration 12, queue size 40, resolution on: 6 27

resolving C1B V C1W V C1Y and -C1B

31: C1W V C1Y generated from 6 27

iteration 13, queue size 45, resolution on: 22 31

resolving -C1W and C1W V C1Y

32: C1Y generated from 22 31

iteration 14, queue size 44, resolution on: 8 24

resolving C3B V C3W V C3Y and -C3B

32: C3W V C3Y generated from 8 24

iteration 15, queue size 46, resolution on: 30 32

resolving -C3Y and C3W V C3Y

33: C3W generated from 30 32

iteration 16, queue size 46, resolution on: 12 33

resolving -C1W V -C3W and C3W

34: -C1W generated from 12 33

iteration 17, queue size 45, resolution on: 8 30

resolving C3B V C3W V C3Y and -C3Y

34: C3B V C3W generated from 8 30

iteration 18, queue size 48, resolution on: 24 34

resolving -C3B and C3B V C3W

35: C3W generated from 24 34

iteration 19, queue size 47, resolution on: 0 15

resolving C1B V C1Y V -O1Y and O1Y

35: C1B V C1Y generated from 0 15

iteration 20, queue size 46, resolution on: 2 17

resolving C3B V C3Y V -O3Y and O3Y

35: C3B V C3Y generated from 2 17

iteration 21, queue size 50, resolution on: 24 35

resolving -C3B and C3B V C3Y

36: C3Y generated from 24 35

iteration 22, queue size 51, resolution on: 30 36

resolving -C3Y and C3Y

37: "Empty\_String" generated from 30 36

SUCCESS! empty clause found

37: [] [30, 36]

30: -C3Y [10, 29]

10: -C1Y V -C3Y [input]

29: C1Y [27, 28]

27: -C1B [13, 26]

13: -C1B V -C2B [input]

26: C2B [21, 25]

21: -C2W [input]

25: C2B V C2W [1, 16]

1: C2B V C2W V -O2W [input]

16: O2W [input]

28: C1B V C1Y [6, 22]

6: C1B V C1W V C1Y [input]

22: -C1W [3, 18]

3: -C1W V -L1W [input]

18: L1W [input]

36: C3Y [24, 35]

24: -C3B [5, 20]

5: -C3B V -L3B [input]

20: L3B [input]

35: C3B V C3Y [2, 17]

2: C3B V C3Y V -O3Y [input]

17: O3Y [input]

**transcript of my program solving example1.kb:**

0: -P -Q R S

1: -A -R

2: A

3: P

4: Q

5: -S

iteration 1, queue size 5, resolution on: 1 2

resolving -A V -R and A

6: -R generated from 1 2

iteration 2, queue size 5, resolution on: 0 3

resolving -P V -Q V R V S and P

7: -Q V R V S generated from 0 3

iteration 3, queue size 8, resolution on: 4 7

resolving Q and -Q V R V S

8: R V S generated from 4 7

iteration 4, queue size 10, resolution on: 5 8

resolving -S and R V S

9: R generated from 5 8

iteration 5, queue size 11, resolution on: 6 9

resolving -R and R

10: "Empty\_String" generated from 6 9

SUCCESS! empty clause found

10: [] [6, 9]

6: -R [1, 2]

1: -A V -R [input]

2: A [input]

9: R [5, 8]

5: -S [input]

8: R V S [4, 7]

4: Q [input]

7: -Q V R V S [0, 3]

0: -P V -Q V R V S [input]

3: P [input]