

Incident Numbers				
Knot	Gauss code	Strands + subsequence	Dancers	Incident number
2.1	1 2 25 2 -1 -2 25 -2	A: 2 25 2 -1; B: -1 -2 25; C: -2 25 -2; D: -2 1 2 25	forward: A,C	2
3.1	6 2 25 7 4 25 -5 -6 -2 25 5 -4 25 -7	A: 2 25 7 4 25; B: 4 25 -5; C: -5 -6; D: -6 -2 25; E: -2 25 5 -4 25; F: -4 25 -7; G: -7 6 2 25	forward: A,E	2
3.2	1 -2 25 2 -3 2 25 -1 3 -2	A: -2 25 2 -3; B: -3 2 25; C: 2 25 -1; D: -1 3 -2; E: -2 1 -2 25	forward: A,D	2
3.3	1 2 25 2 4 25 3 -1 -2 25 -3 -4 25 -2	A: 2 25 2 4 25; B: 4 25 3 -1; C: -1 -2 25; D: -2 25 -3; E: -3 -4 25; F: -4 25 -2; G: -2 1 2 25	forward: A,E	2
3.4	1 2 3 25 3 5 25 -1 -3 -3 25 -2 -5 25	A: 3 25 3 5 25; B: 5 25 -1; C: -1 -3; D: -3 -3 25; E: -3 25 -2; F: -2 -5 25; G: -5 25 1 2 3 25	forward: A,F	2
3.5	1 2 25 2 -3 -5 25 -1 -2 25 -3 5 25	A: 2 25 2 -3; B: -3 -5 25; C: -5 25 -1; D: -1 -2 25; E: -2 25 -2; F: -2 3 5 25; G: 5 25 1 2 25	forward: A,E	2
3.6	1 -2 3 -1 2 -3	A: -2 3 -1; B: -1 2 -3; C: -3 1 -2	forward: A,B	2
3.7	-1 2 25 2 -3 -5 25 1 -2 25 -2 3 5 25	A: -1 2 25; B: 2 25 2 -3; C: -3 -5 25; D: -5 25 1 -2 25; E: -2 25 -2; F: -2 3 5 25; G: 5 25 -1	forward: A,D	2
4.1	-1 -2 25 -2 1 2 25 2 -3 -5 25 -4 3 5 25 4	A: 5 25 3 -4; B: -4 -5 25; C: -5 25 -3; D: -3 2 2 25; E: 2 25 1 -2; F: -2 -2 25; G: -2 25 -1; H: -1 4 5 25	reverse: A,C,E	3
4.2	-7 -2 25 -8 7 2 25 8 -4 5 25 -6 4 -5 25 6	A: -5 25 4 -6; B: -6 5 25; C: 5 25 -4; D: -4 8 2 25; E: 2 25 7 -8; F: -8 -2 25; G: -2 25 -7; H: -7 6 -5 25	reverse: A,C,E	3
4.3	-1 -2 25 -2 1 2 25 2 3 5 25 -4 -7 25 -5 25 -3 7 25 4	A: 7 25 -3; B: -3 -5 25; C: -5 25 -7 25; D: -7 25 -4; E: -4 5 25; F: 5 25 3 2 2 25; G: 2 25 1 -2; H: -2 -2 25; I: -2 25 -1; J: -1 4 7 25	reverse: B,E,G	3
4.4	-5 -2 25 -6 5 2 25 6 4 -5 25 7 -7 4 5 25 7	A: -5 -2 25; B: -2 25 -6; C: -6 5 2 25; D: 2 25 6 4 -5 25; E: -5 25 -7; F: -7 -4; G: -4 5 25; H: 5 25 7 -5	forward: A,C,F	3
4.5	-5 7 6 25 5 6 3 25 -4 -6 -3 25 4 7 -6 25	A: -5 7 6 25; B: 6 25 5 6 3 25; C: 3 25 -4; D: -4 -6; E: -6 -3 25; F: -3 25 4 -7; G: -7 -6 25; H: -6 25 -5	forward: A,B,D	3
4.6	-7 -2 25 -8 7 2 25 8 4 -5 25 -6 7 25 5 25 -4 -7 25 6	A: -7 25 -4; B: -4 5 25; C: 5 25 7 25; D: 7 25 -6; E: -6 -5 25; F: -5 25 4 8 2 25; G: 2 25 7 -8; H: -8 -2 25; I: -2 25 -7; J: -7 6 -7 25	reverse: B,E,G	3
4.7	-1 -2 25 -2 1 2 25 2 3 5 25 4 -3 -5 25 -4	A: -1 -2 25; B: -2 25 -2; C: -2 1 2 25; D: 2 25 2 3 5 25; E: 5 25 4 -3; F: -3 -5 25; G: -5 25 -4; H: -4 -1	forward: A,C,E	3
4.8	-7 -2 25 -8 7 2 25 8 4 -5 25 6 -4 5 25 -6	A: -7 -2 25; B: -2 25 -8; C: -8 7 2 25; D: 2 25 8 4 -5 25; E: -5 25 6 -4; F: -4 5 25; G: 5 25 -6; H: -6 -7	forward: A,C,E	3
4.9	1 2 25 2 -1 3 5 25 -2 25 -2 4 7 25 -5 25 -3 -8 25 -4 -7 25 8 25	A: 2 25 2 -1; B: -1 3 5 25; C: 5 25 -2 25; D: -2 25 -2; E: -2 4 7 25; F: 7 25 -5 25; G: -5 25 -3; H: -3 -8 25; I: -8 25 -4; J: -4 7 25; K: -7 25 8 25; L: 8 25 1 2 25	forward: B,E,I	3
4.10	-1 2 25 -2 -4 25 -2 25 1 -3 -6 25 4 25 2 -4 3 6 25 4	A: 6 25 3 -4; B: -4 2 4 25; C: 4 25 -6 25; D: -6 25 -3; E: -3 1 -2 25; F: -2 25 -4 25; G: -4 25 -2; H: -2 2 25; I: 2 25 -1; J: -1 4 6 25	reverse: A,D,H	3
4.11	-5 -2 25 -3 25 4 -6 5 2 25 6 -6 25 -7 -8 25 3 25 -4 6 25 7 8 25	A: -5 -2 25; B: -2 25 -3 25; C: -3 25 -4 6; D: -6 5 2 25; E: 2 25 6 -6 25; F: -6 25 -7; G: -7 -8 25; H: -8 25 3 25; I: 3 25 -4; J: -4 6 25; K: 6 25 7 8 25; L: 8 25 -5	forward: A,D,H	3
4.12	-1 2 25 -3 1 -4 -5 25 -2 25 3 -5 4 5 25 5	A: 5 25 4 -5; B: -5 3 -2 25; C: -2 25 -5 25; D: -5 25 -4; E: -4 1 -3; F: -3 2 25; G: 2 25 -1; H: -1 5 5 25	reverse: B,E	2
4.13	-7 8 3 25 4 25 -5 6 -7 25 -3 25 -8 7 25 -6 7 8 25 5 -4 25 -8 25	A: -7 8 3 25; B: 3 25 4 25; C: 4 25 -5; D: -5 6 -7 25; E: -7 25 -3 25; F: -3 25 -8; G: -8 7 25; H: 7 25 -6; I: -6 7 8 25; J: 8 25 5 -4 25; K: -4 25 -8 25; L: -8 25 -7	forward: A,E,J	3
4.14	7 2 25 -3 4 25 -5 25 6 -8 -8 25 -4 25 3 8 25 8 -9 25 -7 -2 25 5 25 -6 9 25	A: 9 25 -6; B: -6 5 25; C: 5 25 -2 25; D: -2 25 -7; E: -7 -9 25; F: -9 25 8 8 25; G: 8 25 3 -4 25; H: -4 25 -8 25; I: -8 25 -8; J: -8 6 -5 25; K: -5 25 4 25; L: 4 25 -3; M: -3 2 25; N: 2 25 7 9 25	reverse: A,F,H	3
4.15	1 2 25 -2 -4 25 -2 25 -1 -3 -6 25 4 25 2 -4 3 6 25 4	A: 6 25 3 -4; B: -4 2 4 25; C: 4 25 -6 25; D: -6 25 -3; E: -3 -1; F: -1 -2 25; G: -2 25 -4 25; H: -4 25 -2; I: -2 2 25; J: 2 25 1 4 6 25	reverse: A,F,I	3
4.16	-1 2 25 -3 25 -2 -5 25 1 3 7 25 4 -3 2 3 25 -7 25 -4 -2 25 5 25	A: -1 2 25; B: 2 25 -3 25; C: -3 25 -2; D: -2 -5 25; E: -5 25 1 3 7 25; F: 7 25 4 -3; G: -3 2 3 25; H: 3 25 -7 25; I: -7 25 -4; J: -4 -2 25; K: -2 25 5 25; L: 5 25 -1	forward: A,E,H	3
4.17	1 -2 25 5 25 -6 8 25 -1 2 25 -7 -4 25 -5 25 6 -8 7 4 25 8 -8 25	A: -8 25 8 4 25; B: 4 25 7 -8; C: -8 6 -5 25; D: -5 25 -4 25; E: -4 25 -7; F: 7 2 25; G: 2 25 -1; H: -1 8 25; I: 8 25 -6; J: -6 5 25; K: 5 25 -2 25; L: -2 25 1 -8 25	reverse: A,B,I	3
4.18	-3 -2 3 25 4 25 4 -5 -7 25 -3 25 7 2 5 3 8 25 -4 -4 25 -8 25	A: -8 25 -4 25; B: -4 25 -4; C: -4 8 25; D: 8 25 5 7 2 5; E: 7 25 2 -3 25; F: -3 25 -7 25; G: -7 25 -5; H: -5 4 4 25; I: 4 25 3 25; J: 3 25 -2; K: -2 -3; L: -3 -8 25	reverse: A,D,F	3
4.19	-1 2 25 3 25 5 -9 -6 25 -2 25 1 6 25 9 7 -8 25 4 25 -8 -3 25 9 25 -7 8 25 -9 25	A: -9 25 8 25; B: 8 25 -7; C: -7 9 25; D: 9 25 -3 25; E: -3 25 -8; F: -8 -8 25; G: -8 25 7 9 6 25; H: 6 25 1 -2 25; I: -2 25 -6 25; J: -6 25 -9; K: -9 8 3 25; L: 3 25 2 2 25; M: 2 25 -1; N: -1 -9 25	forward: A,D,F,I	4
4.20	-6 -2 3 25 -4 25 5 -7 -7 25 -3 25 2 7 25 7 6 4 25 -5	A: -5 4 25; B: 4 25 6 7 7 25; C: 7 25 2 -3 25; D: -3 25 -7 25; E: -7 25 -7; F: -7 5 -4 25; G: -4 25 3 25; H: 3 25 -2; I: -2 -6; J: -6 -5	reverse: A,B,D	3
4.21	-1 2 25 -3 4 25 -5 25 6 -7 -8 25 -4 25 3 8 25 7 -9 25 1 -2 25 5 25 -6 9 25	A: 9 25 -6; B: -6 5 25; C: 5 25 -2 25; D: -2 25 1 -9 25; E: -9 25 7 8 25; F: 8 25 3 -4 25; G: -4 25 -8 25; H: -8 25 -7; I: -7 6 -5 25; J: -5 25 4 25; K: 4 25 -3; L: -3 2 25; M: 2 25 -1; N: -1 9 25	reverse: A,E,G	3
4.22	-1 2 25 -3 4 25 -5 25 -4 -7 25 1 -2 25 3 -5 -9 25 4 5 25 9 25 5 -4 25 7 25	A: 7 25 -4 25; B: -4 25 5 9 25; C: 9 25 5 25; D: 5 25 4 -9 25; E: -9 25 -5; F: -5 3 -2 25; G: -2 25 1 -7 25; H: -7 25 -4; I: -4 -5 25; J: -5 25 4 25; K: 4 25 -3; L: -3 2 25; M: 2 25 -1; N: -1 7 25	reverse: A,C,I	3
4.23	-1 2 3 25 3 -4 1 -5 25 4 -2 -3 25 -3 5 25	A: -1 2 3 25; B: 3 25 3 -4; C: -4 -1 -5 25; D: -2 5 4 -2; E: -2 -3 25; F: -3 25 -3; G: -3 5 25; H: 5 25 -1	forward: A,D	2
4.24	-1 2 25 -3 4 25 5 25 -6 -7 25 1 -2 25 3 -7 -5 25 6 7 -4 25 7 25	A: 7 25 -4 25; B: -4 25 7 6 -5 25; C: -5 25 -7; D: -7 3 -2 25; E: -2 25 1 -7 25; F: -7 25 -6; G: -6 5 25; H: 5 25 4 25; I: 4 25 -3; J: -3 2 25; K: 2 25 -1; L: -1 7 25	reverse: A,B,F	3
4.25	-1 -2 -3 25 -3 4 1 6 25 -4 3 3 25 2 -6 25	A: -6 25 2 3 25; B: 3 25 3 -4; C: -4 6 25; D: 6 25 1 4 -3; E: -3 -3 25; F: -3 25 -2; G: -2 -1; H: -1 -6 25	reverse: A,B,D	3
4.26	-8 -2 25 7 -6 25 5 -4 25 -9 8 2 25 9 4 25 -5 6 25 -7	A: -8 -2 25; B: -2 25 7 -6 25; C: -6 25 5 -4 25; D: -4 25 -9; E: -9 8 2 25; F: 2 25 9 4 25; G: 4 25 -5; H: -5 6 25; I: 6 25 -7; J: -7 -8	forward: A,C,E	3
4.27	7 -8 -3 25 -9 5 25 -6 9 3 25 8 -7 6 -5 25	A: -5 25 6 -7; B: -7 8 3 25; C: 3 25 9 -6; D: -6 5 25; E: 5 25 -9; F: -9 -3 25; G: -3 25 -8; H: -8 7 -5 25	reverse: A,B,F	3
4.28	-8 -2 25 3 8 4 25 -5 6 25 -7 2 25 -3 7 -6 25 5 -4 25	A: -4 25 5 -6 25; B: -6 25 7 -3; C: -3 2 25; D: 2 25 -7; E: -7 6 25; F: 6 25 -5; G: -5 4 25; H: 4 25 8 3 -2 25; I: -2 25 -8; J: -8 -4 25	reverse: A,B,H	3
4.29	-1 -2 25 -3 25 -2 -3 -6 25 2 25 4 2 3 25 -4 1 8 25 5 6 25 -8 25	A: -1 -2 25; B: -2 25 -3 25; C: -3 25 -2; D: -2 -3; E: -3 -6 25; F: -6 25 2 25; G: 2 25 4 2 3 25; H: 3 25 -4; I: -4 1 8 25; J: 8 25 3 6 25; K: 6 25 -8 25; L: -8 25 -1	forward: A,D,J	3
4.30	-1 2 25 3 25 2 3 6 25 -2 4 -2 25 1 -4 -3 25 -6 25 -3	A: 1 -2 25; B: 2 25 3 25; C: 3 25 2 3 6 25; D: 6 25 -2; E: -2 4 -2 25; F: -2 25 1 -4; G: -4 -3 25; H: -3 25 -6 25; I: -6 25 -3; J: -3 -1	forward: A,E	2
4.31	7 2 25 8 -4 25 -9 -7 -2 25 -6 4 25 9 6 -8	A: -8 6 9 4 25; B: 4 25 -6; C: -6 -2 25; D: -2 25 -7; E: -7 -9; F: -9 -4 25; G: -4 25 8 2 25; H: 2 25 7 -8	reverse: A,E	2
4.32	7 2 25 -3 -9 -5 25 -6 7 25 3 -2 25 -7 25 6 -7 8 5 25	A: 5 25 8 -7; B: -7 6 -7 25; C: -7 25 -2 25; D: -2 25 3 7 25; E: 7 25 -6; F: -6 -5 25; G: -5 25 -8; H: -8 -3; I: -3 2 25; J: 2 25 7 5 25	reverse: A,C,I	3
4.33	-5 -2 25 3 25 -4 -6 -6 25 2 25 7 8 25 -3 25 4 -8 25 -7 5 9 25 6 6 25 -9 25	A: -5 -2 25; B: -2 25 3 25; C: 3 25 -4; D: -4 -6; E: -6 -6 25; F: -6 25 2 25; G: 2 25 7 8 25; H: 8 25 -3 25; I: -3 25 4 -8 25; J: -8 25 -7; K: -7 5 9 25; L: 9 25 6 6 25; M: 6 25 -9 25; N: -9 25 -5	forward: A,B,H,L	4
4.34	-1 2 25 3 25 5 5 25 -6 25 7 -5 25 -8 -9 2 25 1 -9 -3 25 6 25 -7	A: -1 2 25; B: 2 25 3 25; C: 3 25 5 5 25; D: -6 25 -6 25; E: -6 25 7 -5 25; F: -5 25 -8; G: -8 9 -2 25; H: -2 25 -9; I: -9 -3 25; J: -3 25 6 25; K: 6 25 -7; L: -7 -1	forward: A,C,E	3
4.35	-1 -2 3 25 3 2 -4 -6 25 1 4 -3 25 -3 6 25	A: 6 25 -3; B: -3 -3 25; C: -3 25 4 1 -6 25; D: -6 25 -4; E: -4 2 3 3 25; F: 3 25 -2; G: -2 -1; H: -1 6 25	reverse: A,E	2
4.36	-1 2 25 3 -4 25 -2 25 1 -8 -6 25 7 8 4 25 -3 6 25 -7	A: -1 2 25; B: 2 25 3 -4 25; C: -4 25 -2 25; D: -2 25 1 -8; E: -8 -6 25; F: -6 25 7 8 4 25; G: 4 25 -3; H: -3 6 25; I: 6 25 -7; J: -7 -1	forward: A,B,F	3
4.37	-1 -2 -3 25 3 5 25 3 25 4 1 7 25 -4 2 -5 25 -3 -7 25	A: -1 -2; B: -2 -3 25; C: -3 25 3 5 25; D: 5 25 3 25; E: 3 25 4 1 7 25; F: 7 25 -4; G: -4 2 -5 25; H: -5 25 -3; I: -3 -7 25; J: -7 25 -1	forward: A,C,G	3
4.38	-5 -6 -3 25 4 7 5 6 25 -7 6 3 25 -4 -6 25	A: -5 -6; B: -6 -3 25; C: -3 25 4 7 6 25; D: 6 25 -7; E: -7 6 3 25; F: 3 25 -4; G: -4 -6 25; H: -6 25 -5	forward: A,E	2
4.39	-4 -2 25 3 -5 -5 25 6 7 25 5 25 -8 9 25 4 2 25 -3 8 25 -7 25 -6 -9 25	A: -9 25 -6; B: -6 -7 25; C: -7 25 8 25; D: 8 25 -3; E: -3 2 25; F: 2 25 4 9 25; G: 9 25 -8 25; H: -8 25 5 5 25; I: 5 25 7 25; J: 7 25 6 -5 25; K: -5 25 -5; L: -5 3 -2 25; M: -2 25 -4; N: -4 -9 25	reverse: B,G,I	3
4.40	-1 2 -3 -4 25 6 25 4 25 3 -7 25 1 -2 7 25 -6 25 -4	A: -4 -6 25; B: -6 25 4 25; C: 7 25 -2; D: -2 1 -7 25; E: -7 25 3 4 25; F: 4 25 6 25; G: 6 25 4 -4 25; H: -4 25 -3; I: -3 2 -1; J: -1 -4	forward: A,D,F	3
4.41	-1 2 25 -2 -4 25 3 6 25 4 25 4 -2 25 1 -4 2 -6 25 -3	A: -1 2 25; B: 2 25 -2; C: -2 -4 25; D: -4 25 3 6 25; E: 6 25 4 25; F: 4 25 4 -2 25; G: -2 25 1 -4; H: -4 2 -6 25; I: -6 25 -3; J: -3 -1	forward: A,C,E	3
4.42	-7 -2 25 3 -8 -5 25 6 8 -7 25 8 25 7 2 25 -3 7 25 5 25 -6 -8 25	A: -8 25 -6; B: -6 5 25; C: 5 25 7 25; D: 7 25 -3; E: -3 2 25; F: 2 25 7 8 25; G: 8 25 -7 25; H: -7 25 8 6 -5 25; I: -5 25 -8; J: -8 3 -2 25; K: -2 25 -7; L: -7 -8 25	reverse: A,C,G	3
4.43	-1 -2 25 -2 3 -4 1 2 25 4 -3 2	A: -3 4 2 25; B: 2 25 1 -4; C: -4 3 -2; D: -2 -3 25; E: -2 25 -1; F: -1 2 -3	reverse: A,D	2
4.44	-3 2 -3 25 -4 5 3 6 25 -5 4 3 25 -2 -6 25	A: -3 2 -3 25; B: -3 25 -4; C: -4 5 3 6 25; D: 6 25 -5; E: -5 4 3 25; F: 3 25 -2; G: -2 -6 25; H: -6 25 -3	forward: A,E	2
4.45	-6 -2 25 -7 -4 25 5 -6 25 -8 6 2 25 8 6 25 -5 4 25 7	A: 4 25 -5; B: -5 6 25; C: 6 25 8 9 2 25; D: 2 25 6 -8; E: -8 -6 25; F: -6 25 5 -4 25; G: -4 25 -7; H: -7 -2 25; I: -2 25 -6; J: -6 7 4 25	reverse: B,C,H	3
4.46	-4 -2 -3 4 25 5 4 6 25 -5 -4 25 3 -2 -6 25	A: -6 25 -2; B: -2 3 -4 25; C: -4 25 -5; D: -5 6 25; E: 6 25 4 5 4 25; F: 4 25 -3; G: -3 2 -4; H: -4 -6 25	reverse: B,E	2
4.47	-1 -5 -3 25 4 -5 25 -6 -7 25 1 6 6 25 -4 3 25 5 7 25	A: 7 25 5 3 25; B: 3 25 4; C: -4 5 25; D: 5 25 6 1 -7 25; E: -7 25 -6; F: -6 -5 25; G: -5 25 4 -3 25; H: -3 25 -5; I: -5 -1; J: -1 7 25	reverse: A,C,F	3
4.48	-1 -2 25 -3 25 -2 3 6 25 2 25 4 2 3 25 -4 1 -6 25 -3	A: -1 -2 25; B: -2 25 -3 25; C: -3 25 -2; D: -2 3 6 25; E: 6 25 2 25; F: 2 25 4 2 3 25; G: 3 25 -4; H: -4 1 -6 25; I: -6 25 -3; J: -3 -1	forward: A,E	2
4.49	-7 -2 25 -3 25 -8 -5 25 6 -7 25 8 25 2 25 9 8 3 25 -9 7 -8 25 5 25 -6 7 25	A: -7 -2 25; B: -2 25 -3 25; C: -3 25 -8; D: -8 -5 25; E: -5 25 6 -7 25; F: -7 25 8 25; G: 8 25 2 25; H: 2 25 9 8 3 25; I: 3 25 -9; J: -9 7 -8 25; K: -8 25 5 25; L: 5 25 -6; M: -6 7 25; N: 7 25 -7	forward: A,F,G	3
4.50	-8 9 3 25 10 5 25 8 -10 7 -6 25 -3 25 9 6 25 -7 -5 25	A: -8 9 3 25; B: 3 25 10 5 25; C: 5 25 8 -10; D: -10 7 -6 25; E: -6 25 -3 25; F: -3 25 -9; G: -9 6 25; H: 6 25 -7; I: -7 -5 25; J: -5 25 -8	forward: A,C,E	3
4.51	-7 8 3 25 7 -4 25 5 -8 -3 25 -6 4 25 -5 6	A: -7 8 3 25; B: 3 25 7 -4 25; C: -4 25 5 -8; D: -8 -3 25; E: -3 25 -6; F: -6 4 25; G: 4 25 -5; H: -5 6 -7	forward: A,B,F	3
4.52	-9 -2 25 3 -4 25 5 2 25 9 5 25 6 25 -7 25 8 -9 25 -3 4 25 -5 25 -10 7 25 -8 9 25 -6 25 10	A: -9 -2 25; B: -2 25 3 -4 25; C: -4 25 2 25; D: 2 25 9 5 25; E: 5 25 6 25; F: 6 25 -7 25; G: -7 25 8 -9 25; H: -9 25 -3; I: -3 4 25; J: 4 25 -5 25; K: -5 25 -10; L: -10 7 25; M: 7 25 -8; N: -8 9 25; O: 9 25 -6 25; P: -6 25 10	forward: A,B,F,L	4
4.53	-1 -2 25 2 4 25 -3 -6 25 -4 25 -2 6 25 3 -4 1 2 25 4	A: 2 25 1 -4; B: -4 3 6 25; C: 6 25 -2; D: -2 -4 25; E: -4 25 -6 25; F: -6 25 -3; G: -3 4 25; H: 4 25 2 -2 25; I: -2 25 -1; J: -1 4 2 25	reverse: D,G,J	3
4.54	-4 -2 25 3 -4 25 -5 -3 4 25 5 6 -4 2 25 6	A: -4 -2 25; B: -2 25 3 -4 25; C: -4 25 -5; D: -5 -3; E: -3 4 25; F: 4 25 5 -6; G: -6 4 2 25; H: 2 25 6 4	forward: A,D,G	3
4.55	-5 -2 25 3 -4 5 25 6 4 -5 25 -5 6 2 25 -3	A: -5 -2 25; B: -2 25 3 -4; C: -4 5 25; D: 5 25 6 4 -5 25; E: -5 25 -6; F: -6 5 2 25; G: 2 25 -3; H: -3 -5	forward: A,B,D	3
4.56	-1 5 3 25 -4 -5 -3 25 4 6 -6 25 1 6 25	A: 6 25 6 1 -6 25; B: -6 25 -6; C: -6 -4 -3 25; D: -3 25 -5; E: -5 -4; F: -4 3 25; G: 3 25 5 -1; H: -1 6 25	reverse: A,B,E	3
4.57	-8 -2 25 -3 25 -9 -10 8 2 25 10 -6 25 7 -8 25 3 25 9 6 25 -7 8 25	A: 8 25 -		