

Migration



While on a birdwatching cruise, James and Sarah see a gull tagged for observation. Alas, the tag's GPS data has been **summarized**, so only the start, end, and **total area covered at a given latitude or longitude on each trip** is available. Sarah notices this bird isn't an "ambiturner"—it **only turns right!** It **may cross its own path but never doubles over on itself**. James and Sarah **determine the paths** this bird took from the South Pole to the North Pole, and from North to South. After **comparing the paths**, how do they describe the bird's migration?

	0	5	1	4	2	7	4	4	2	2	2	2	3	0		
South-to-North Migration	1	R	O	S	G	I	F	E	L	N	S	U	T	M	R	B
	4	N	N	R	A	R	S	T	H	I	A	A	L	H	B	I
	5	T	A	I	E	M	W	C	Y	I	P	U	T	A	N	F
	1	I	A	F	N	M	O	A	H	B	I	L	R	O	O	C
	1	M	B	S	U	E	I	R	E	M	D	R	S	C	E	B
	13	D	I	O	C	A	B	L	G	R	I	L	D	T	O	D
	3	G	I	S	A	K	O	N	Y	A	T	K	E	A	O	I
	10	D	I	E	N	D	A	P	R	E	N	R	E	N	U	R
	1	O	S	A	O	L	A	A	G	C	R	L	O	M	I	C
	1	I	G	O	E	R	F	L	Y	E	T	E	G	C	N	A

R	O	S	G	I	F	E	L	N	S	U	T	M	R	B	1
N	N	R	A	R	S	T	H	I	A	A	L	H	B	I	6
T	A	I	E	M	W	C	Y	I	P	U	T	A	N	F	3
I	A	F	N	M	O	A	H	B	I	L	R	O	O	C	4
M	B	S	U	E	I	R	E	M	D	R	S	C	E	B	1
D	I	O	C	A	B	L	G	R	I	L	D	T	O	D	4
G	I	S	A	K	O	N	Y	A	T	K	E	A	O	I	3
D	I	E	N	D	A	P	R	E	N	R	E	N	U	R	3
O	S	A	O	L	A	A	G	C	R	L	O	M	I	C	14
I	G	O	E	R	F	L	Y	E	T	E	G	C	N	A	1
1	1	1	4	3	5	2	2	8	0	4	2	5	1	1	