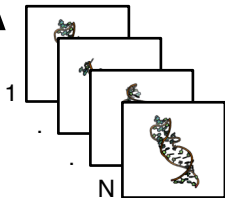


A

(conformational pool)

**predict chemical shifts**

1
.
.
N

G	1	C1'	89.2
G	2	C1'	90.2
G	3	C1'	90.6
U	4	C1'	90.8
C	5	C1'	89.9
C	6	C1'	91.4
C	7	C1'	92.3
C	8	C1'	89.2

(computed chemical shifts)

B

G	1	C1'	89.2
G	2	C1'	90.2
G	3	C1'	90.6
U	4	C1'	90.8
G	5	C1'	89.9
C	6	C1'	91.4
U	7	C1'	92.3

(assigned chemical shifts)

**“anonymize”**

89.2

90.2

90.6

90.8

89.9

91.4

92.3

(unassigned chemical shifts)

C

**assign chemical shifts using
the Hungarian Algorithm**

1
.
.
N

G	1	C1'	89.2
G	2	C1'	90.2
G	3	C1'	90.6
U	4	C1'	90.8
C	5	C1'	89.9
C	6	C1'	91.4
C	7	C1'	92.3
C	8	C1'	89.2

(optimally assigned chemical shift data)