

**Hash Function (on ID):**

1. Division Remainder by MAX\_N\_LOC
2. If remainder is 0, use MAX\_N\_LOC
3. return that as the homeAddress

**CollisionResolutionAlgorithm:**

- Linear (with wrap-around)
- Embedded Overflow (Coll's in Home area)

Code	ID	Home Address	Final RRN	Home /Coll
MEX	12	12	12	H
CHN	23	23	23	H
JPN	13	13	13	H
USA	6	6	06	H
FRA	19	19	19	H
BEL	27	27	27	H
GBR	32	2	02	H
HTI	39	9	09	H
VEN	43	13	14	C1
NIC	10	10	10	H
POL	20	20	20	H
YEM	90	30	30	H
EGY	30	30	01	C1
LBN	60	30	03	C3
IND	72	12	15	C3
OMN	42	12	16	C4
DEU	53	23	24	C1
SOM	69	9	11	C2
WSM	37	7	07	H
KEN	102	12	17	C5
XVI	1	1	04	C3
QAT	35	5	05	H
ZWE	132	12	18	C6
RUS	120	30	08	C8
TCA	29	29	29	H
ATA	59	29	21	C22

ABOVE STRUCTURE **NOT** ACTUALLY IN THE PROGRAM

– it's just used as a worksheet

**Average Search Path:** \_\_\_\_\_**ACTUAL DATA FILE**

searchTime

RRN	ID	restOfRec (Code, etc.)	searchTime (# I/O's)
1	30	EGY	
2	32	GBR	
3	60	LBN	
4	1	XVI	
5	35	QAT	
6	6	USA	
7	37	WSM	
8	120	RUS	
9	39	HTI	
10	10	NIC	
11	69	SOM	
12	12	MEX	
13	13	JPN	
14	43	VEN	
15	72	IND	
16	42	OMN	
17	102	KEN	
18	132	ZWE	
19	19	FRA	
20	20	POL	
21	59	ATA	
22			
23	23	CHN	
24	53	DEU	
25			
26			
27	27	BEL	
28			
29	29	TCA	
30	90	YEM	

