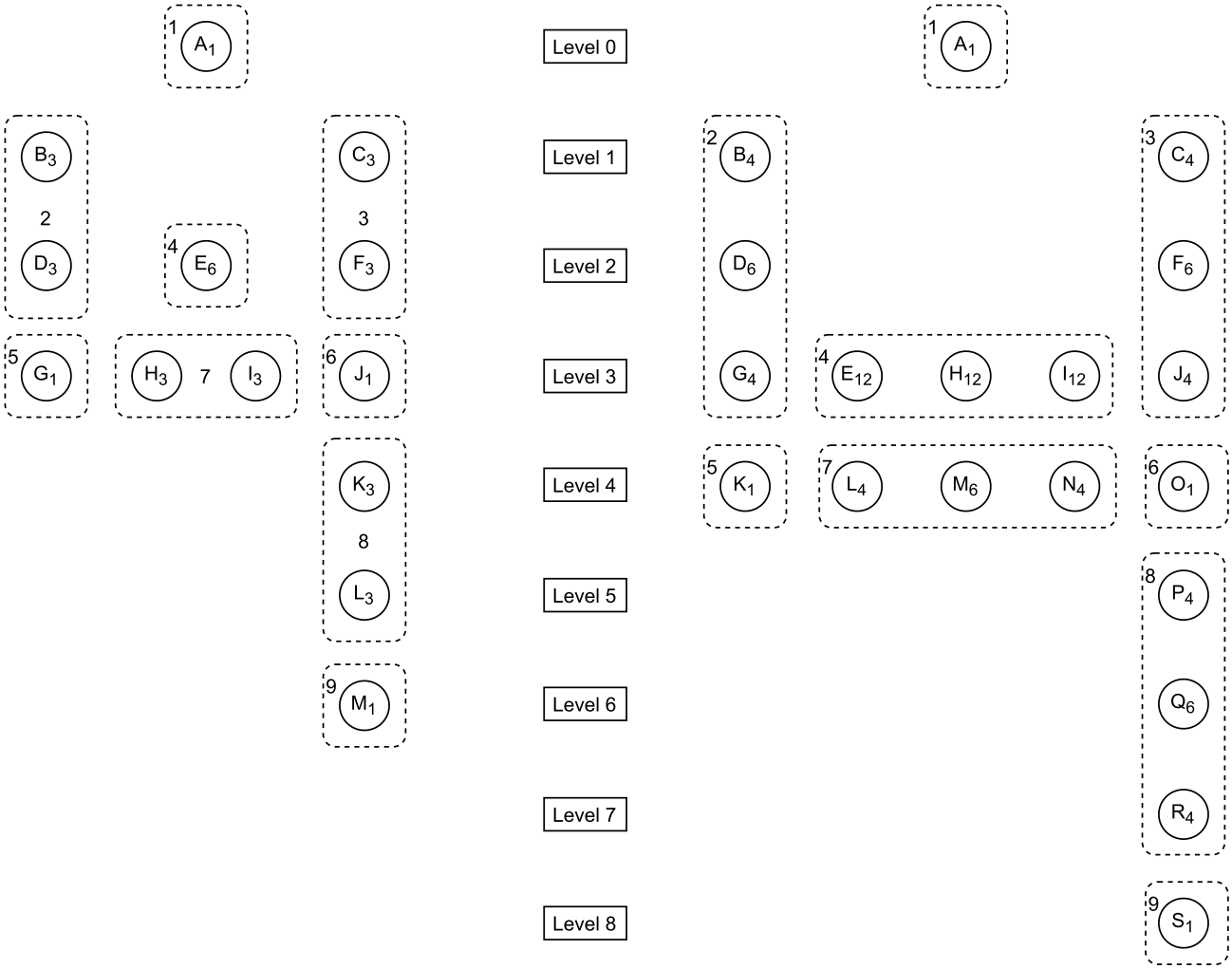
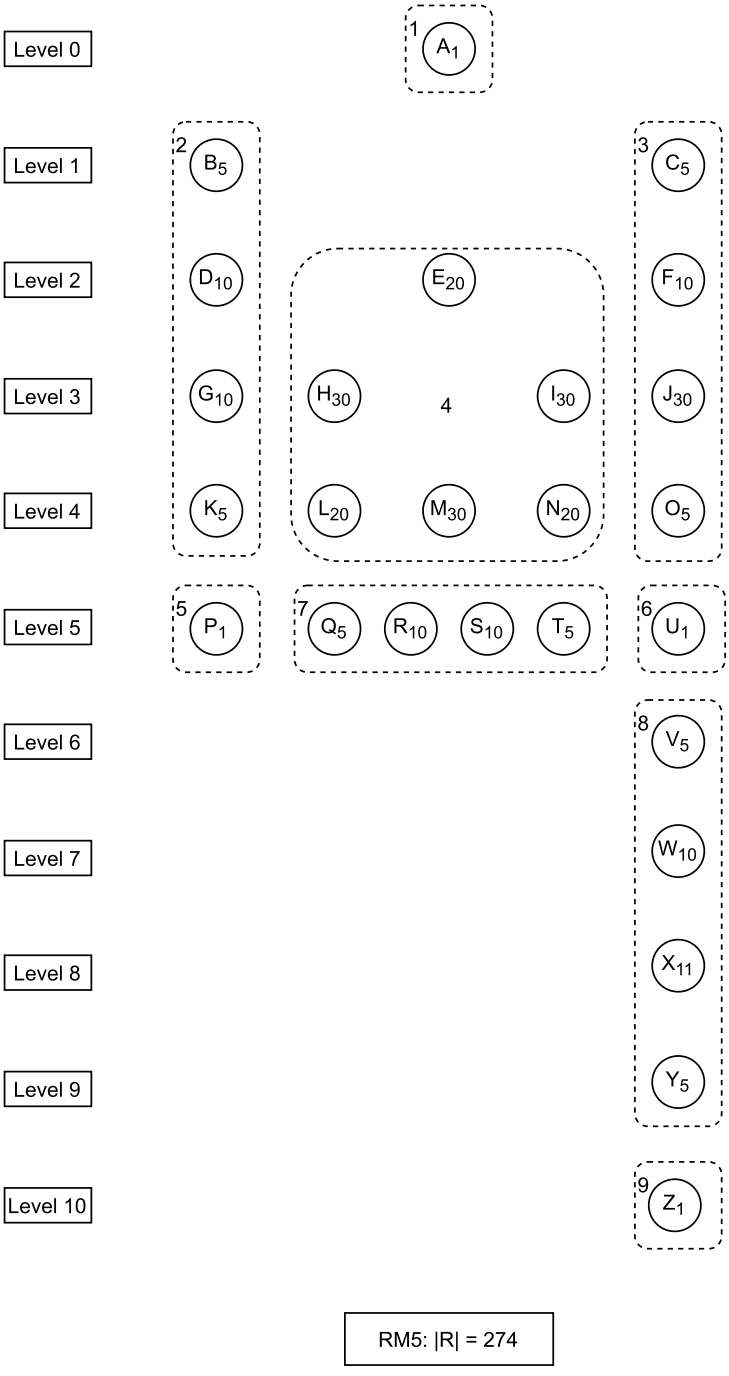

Transaction-Commit Classes and Configurations
Classes are circles annotated with alphabetic labels indexed by class size.
Configurations are disjoint sets of classes and are numbered from 1 to 9.
Level 0
Level 1
Level 2
Level 3
Level 4
Level 5
Level 6
Level 7
Level 8
RM3: |R| = 34
RM4: |R| = 96


Level 0
Level 1
Level 2
Level 3
Level 4
Level 5
Level 6
Level 7
Level 8
Level 9
Level 10
1
A1
2
B5
D10
G10
K5
3
C5
F10
J30
O5
E20
H30
4
I30
L20
M30
N20
5
P1
7
Q5
R10
S10
T5
6
U1
8
V5
W10
X11
Y5
9
Z1
RM5: |R| = 274

Configurations Predicates Based on RM4

Config1 =	$\forall R.\, working(R) \land \neg aborted(R) \land \neg committed(R) \land \neg pending(R)$
Config2 =	$\exists R.\, working(R) \land \exists R. \neg working(R)$
	$\forall R.\, aborted(R) \oplus working(R)$
	$\forall R. \neg committed(R) \land \neg pending(R)$
Config3 =	$\exists R.\, working(R) \land \exists R. \neg working(R)$
	$\forall R.\, pending(R) \oplus working(R)$
	$\forall R.\, pending(R) \oplus working(R)$
	$\forall R. \neg aborted(R) \land \neg committed(R)$
Config4 =	$\exists R.\, working(R) \land \exists R.\, pending(R) \land \exists R.\, aborted(R)$
	$\forall R.\, aborted(R) \rightarrow \neg working(R)$
	$\forall R.\, working(R) \rightarrow \neg pending(R)$
	$\forall R.\, pending(R) \rightarrow \neg aborted(R)$
	$\forall R. \neg committed(R)$
Config5 =	$\forall R.\, aborted(R) \land \neg committed(R) \land \neg pending(R) \land -working(R)$
Config6 =	$\forall R.\, pending(R) \land \neg aborted(R) \land -committed(R) \land -working(R)$
Config7 =	$\exists R.\, pending(R) \land \exists R. \neg pending(R)$
	$\forall R. \neg committed(R) \land \neg working(R)$
Config8 =	$\exists R.\, pending(R) \land \exists R. \neg pending(R)$
	$\forall R.\, committed(R) \oplus pending(R)$
	$\forall R. \neg aborted(R) \land \neg working(R)$
Config9 =	$\forall R.\, committed(R) \land \neg aborted(R) \land \neg pending(R) \land -working(R)$

Configuration 2

	$RM2$	$RM3$	$RM4$	$RM5$
	$A\,W$	$A\,W$	$A\,W$	$A\,W$
B	1 1	1 2	1 3	1 4
D		2 1	2 2	2 3
G			3 1	3 2
K				4 1

$A + W = n$
$A \geq 1$
$W \geq 1$

Configuration 4

	$RM2$	$RM3$	$RM4$	$RM5$
	$A\,P\,W$	$A\,P\,W$	$A\,P\,W$	$A\,P\,W$
E		1 1 0	1 1 1	1 1 2
H			2 1 0	2 1 1
I			1 2 0	1 2 1
L				3 1 0
M				2 2 0
N				1 3 0

$A + P + W = n$
$A \geq 1$
$P \geq 1$
$W \geq 0$