An 1 Drad de	
Ans 1- Production system consists of	
set of rules (working memory); which are	inthe
form of P-> a where left side represent the	current
state and right side represent a result or	generated
Output	
2. Knowledge/Database: It contains whatever	infois
required for the particular task. Some info.	may
be permanent or some may be the solution of	Lunat
broblem.	
3. Control strategy: It is way to resolve the con	llict
which arrive when several rules match at o	nce.
4. Rule applier: It checks the ability applicabi	lity of
the rules by matching the current state with	lel+
hand side of the rule and find appropriate r	We !
from the databases of rules.	
State shace	
Need > Exactly 2 gallons of water into the	4-
gallon jug.	
1. First fill water in 31 jug completely	
X=0, y=3	
2. Fill water from y tox	
$\chi = 3, \gamma = 0$	
Bécause we need 31 water in 41 jug	
3. Again fill y fully	
7=3 4=3	
4. X's capacity is 4L and 4's capacity is	3/
Now, we will fill a completely using y.	
5. At the end, x=4 y=2	AN A
We get 21 water in v iva	

first Search M12. Goal W ...





