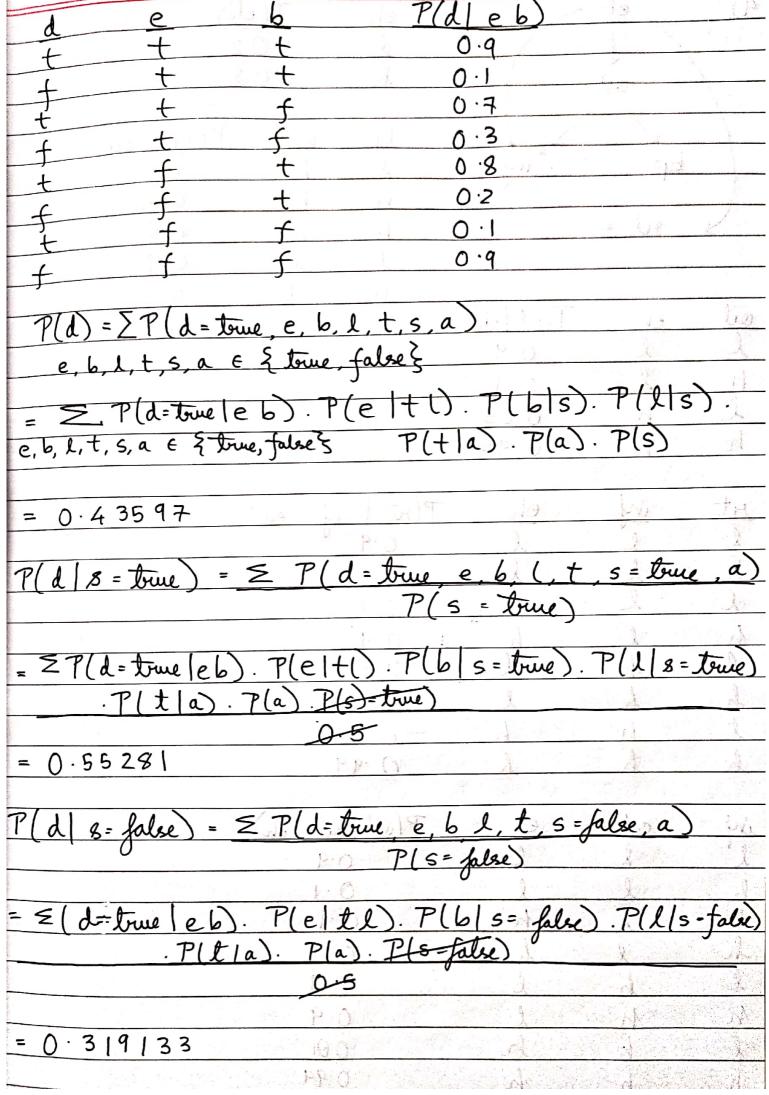


maximises $ 7(A)-q(1) $
maximises $ P(A) - q(A) $  P(i) - q(i)   P(i) - q(i)   P(i) - q(i)
· 1 5 \$1,2,, n } [7 (A) - 9(A) - i=1
example: $i P(i) q(i)$ $1 \frac{1}{2} \frac{1}{3}$
Z 0 1/3
3 1/2 0
4 0 1/3
max = P(A)-9(A) 1 = \$1.38 on A = \$2.48
for $A \subseteq \{1,2,3,4\}$ $P(A) - Q(A)$ . $A = \{1,3\}$ on $A = \{2,4\}$
for $A \subseteq \{1,2,3,4\}$   $P(A) = (1,2)$ of $A \subseteq \{1,2,3,4\}$   $P(A) = (1,2)$ either way; $P(A) = (1,2)$   $P(A)$
$8 = \frac{1}{2}  p(i) - q(i)  / 2 = \frac{2}{3}$
(=1
2) P. T any DAG with a finite number of vertices has attent one vertex with no incoming edges slap. S. T there is attent one vertex with no outgoing edges.
attent one verter with no incoming edges slee. S. I
there is atteast one vertex with no outgoing edges.
If possible, let there be no verten of indegree $0 \rightarrow every$ verten is of indegree $> 1$ . Also, let the graph have 'n' vertices , $n \in \mathbb{N}$ .
wenter is of indegree > 1 Also, let the graph
have 'n' werteer n & N.
PPO T
of a to the side of randowly go to
sati from weather ( A vertin V s.t 7 an edge
any of its parents the lit as 1/2. Follow this
start from werten V, (sug), person V s.t. 7 an edge any of its parents (A verten V s.t. 7 an edge from V to V,) and label it as V2. Follow this sequence to generate the sequence & V, V2, V3, sequence to generate the sequence & V, V2, V3,
sequence de que la sociale Vie Vi
sequence to freeze grantole painciple, Vi=Vi, Vn, Vn+1 S By pigeonhole painciple, Vi=Vi for some i = j & i, j & {1, 2,, n + 1 } inplying that  for some i = j & i, j & {1, 2,, n + 1 } inplying that
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The state of the s
1 1 11 mt and marge 21
the graph cannot have all vertices of the
-> the DAG with finite H wrices was
: the graph cannot have all vertices of indegree 21  -> the DAG with finite # vertices must have a vertex of indegree 0.
Coonned by Com Coonner

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		-		
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sequence of verte	les & V, V2, ···	Vn+15	. By	
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V <sub>i</sub> = V <sub>j</sub> for 5 cycle V <sub>i</sub> → V <sub>i+</sub>	1 ->> V;=	Vi which	1 us a	Contradidio
In a DAG, 7	at least 1 v	erten of	out degree	7 0.
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3) a	5	ll varial	iles are	
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and the second s	on a new recommendation of the comment of the comm	Scanned by CamScanne

Pling = h | bp = n, rit = h) = P(inf = h, bp = n, rt = h) P (bp = n, gt = n) = oil, eh ∈ El, h} P(inf=h, bp=n, st=h, oil, eh) inf, oil, ch = { h, } P(inf, bp=n, rt=h, oil, eh) = oil, eh = {1,h} P(rt=h | inj=h, eh). P(inj=h | oil, eh). P(bp=n oil). P(oil eh). P(eh) F (infloid, eh). P(bp=nloid). P(rt=h/infeh). 0.309614 0.98474 0.31441