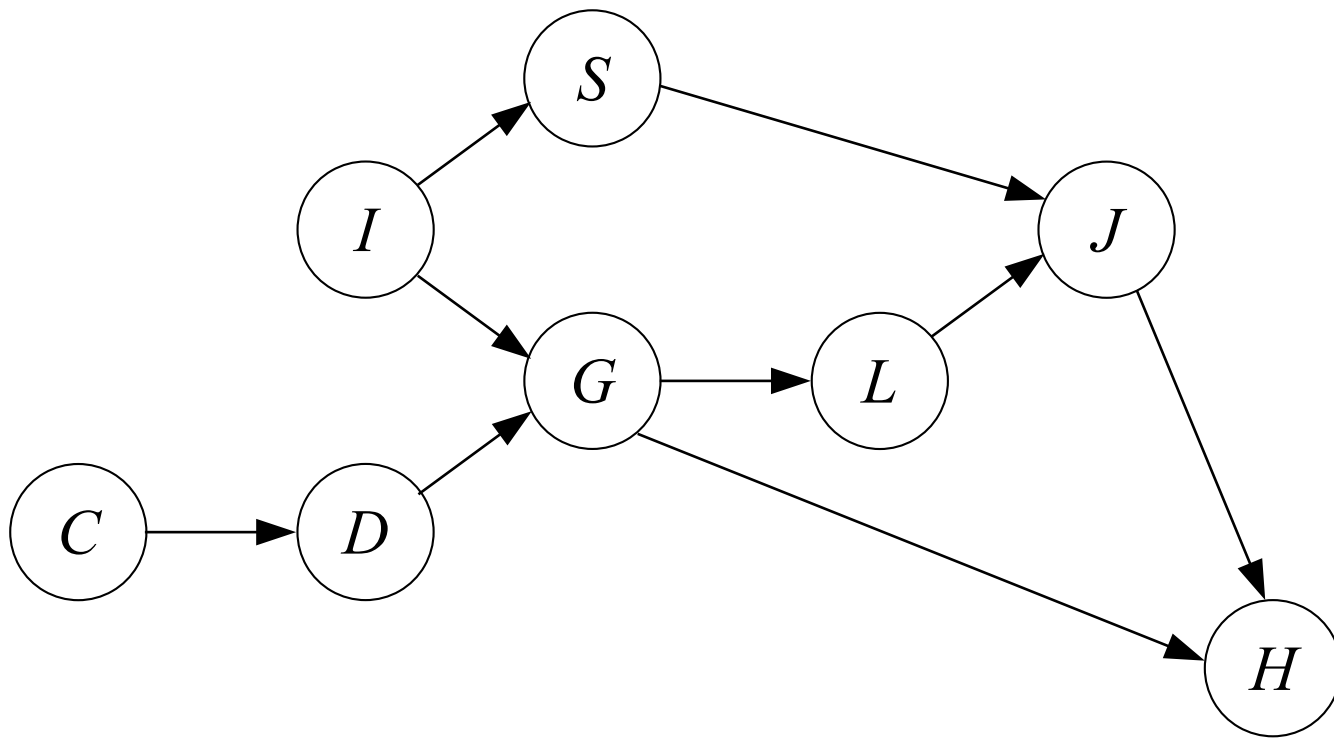


# Bayesian Network "Extended Student"



$C := Coherence$ ,  $D := Difficulty$ ,  $G := Grade$ ,  $H := Happy$ ,  $I := Intelligence$ ,  $J := Job$ ,  $L := Letter$ ,  $S := SAT$

$P(C)$ 

$c_0$	$c_1$	$c_2$
0.2	0.5	0.3

 $P(I)$ 

$i_0$	$i_1$
0.7	0.3

 $P(L \mid G)$ 

	$l_0$	$l_1$
$g_0$	0.10	0.90
$g_1$	0.40	0.60
$g_2$	0.99	0.01

 $P(S \mid I)$ 

	$s_0$	$s_1$
$i_0$	0.95	0.05
$i_1$	0.20	0.80

 $P(D \mid C)$ 

	$d_0$	$d_1$
$c_0$	0.2	0.8
$c_1$	0.5	0.5
$c_2$	0.8	0.2

 $P(G \mid D, I)$ 

	$g_0$	$g_1$	$g_2$
$d_0, i_0$	0.30	0.40	0.30
$d_0, i_1$	0.90	0.08	0.02
$d_1, i_0$	0.05	0.25	0.70
$d_1, i_1$	0.50	0.30	0.20

 $P(J \mid L, S)$ 

	$j_0$	$j_1$
$l_0, s_0$	0.95	0.05
$l_0, s_1$	0.25	0.75
$l_1, s_0$	0.65	0.35
$l_1, s_1$	0.15	0.85

 $P(H \mid G, J)$ 

	$h_0$	$h_1$	$h_2$
$g_0, j_0$	0.60	0.30	0.10
$g_0, j_1$	0.01	0.10	0.89
$g_1, j_0$	0.80	0.15	0.05
$g_1, j_1$	0.10	0.20	0.70
$g_2, j_0$	0.95	0.04	0.01
$g_2, j_1$	0.20	0.30	0.50

Moralized graph

