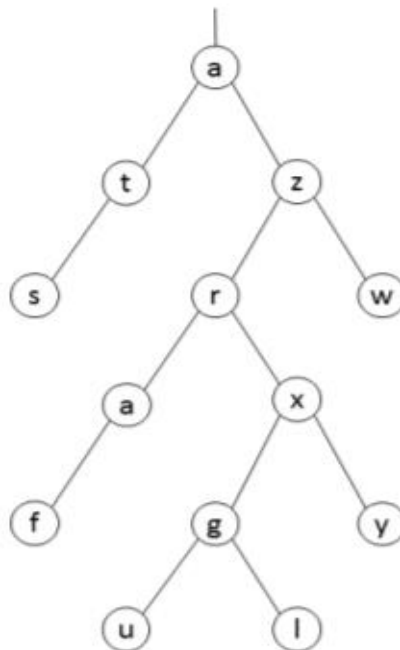Alexander Guðmundsson

Einstaklingsverkefni 5

Íhugið tréð t í mynd 1 á blaðsíðu 7. Fyllið út eftirfarandi töflur og setjið stafarunur í auðu reitina ef við á. Ef viðkomandi reitur samsvarar ekki löglegu kalli á viðkomandi fall skal skilja reitinn eftir auðan. Skilið útfylltum töflum sem lausn á verkefninu. Ekki breyta röð gilda í fyrstu súlu.

Mynd 1: Tréð *t*.

a)

p	PreSeq(t,p)	MidSeq(t,p)	PostSeq(t,p)
[ ]	{s, t}	{a1}	{f,a2,r,u,g,l,x,y,z,w}
[0]		{s,t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[1]	{s,t,a1,f,a2,r,u,g,l,x,y }	{z,w}	
[1,0]	{s,t,a1,f,a2}	{r}	{u,g,l,x,y,z,w}
[0,0]		{s}	{t, a1,f,a2,r,u,g,l,x,y,z,w}
[0,1]	{s,t}		{a1,f,a2,r,u,g,l,x,y,z,w}
[1,1]	{s,t, a1,f,a2,r,u,g,l,x,y,z}	{w}	
[0,1,1]	{s,t}		{a1,f,a2,r,u,g,l,x,y,z,w}
[1,0,0]	{s,t,a1}	{f,a2}	{r,u,g,l,x,y,z,w}
[1,1,0]	{s,t, a1,f,a2,r,u,g,l,x,y,z}		{w}
[0,0,0]			{s,t, a1,f,a2,r,u,g,l,x,y,z,w}
[0,1,0]	{s,t}		{a1,f,a2,r,u,g,l,x,y,z,w}
[0,0,1]	{s}		{t,a1,f,a2,r,u,g,l,x,y,z,w}
[1,0,1]	{s,t,a1,f,a2,r,u,g,l}	{x,y}	{z,w}
[1,1,1]	{s,t, a1,f,a2,r,u,g,l,x,y,z,w}		
[1,0,1,0,1]	{s,t, a1,f,a2,r,u,g}	{l}	{x,y,z,w}
[1,0,1,0,1,0]	{s,t, a1,f,a2,r,u,g}		{l,x,y,z,w}
[1,0,1,0,1,1]	{s,t, a1,f,a2,r,u,g,l}		{x,y,z,w}

b)

p	PreSeqExcluding(t,p)	PostSeqIncluding(t,p)
[ ]	{s, t}	{ a1,f,a2,r,u,g,l,x,y,z,w}
[0]	{s}	{ t ,a1,f,a2,r,u,g,l,x,y,z,w}
[1]	{s,t,a1,f,a2,r,u,g,l,x,y }	{z,w}
[1,0]	{s,t,a1,f,a2}	{ r ,u,g,l,x,y,z,w}
[0,0]		{s,t,a1,f,a2,r,u,g,l,x,y,z,w}
[0,1]	{s,t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[1,1]	{s,t, a1,f,a2,r,u,g,l,x,y,z}	{w}
[0,0,0]		{s,t, a1,f,a2,r,u,g,l,x,y,z,w}
[0,0,1]	{s}	{t,a1,f,a2,r,u,g,l,x,y,z,w}
[0,1,0]	{s,t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[0,1,1]	{s,t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[1,0,0]	{s,t, a1,f}	{a2,r,u,g,l,x,y,z,w}
[1,0,1]	{s,t, a1,f,a2,r,u,g,l}	{x,y,z,w}
[1,1,0]	{s,t, a1,f,a2,r,u,g,l,x,y,z}	{w}
[1,1,1]	{s,t, a1,f,a2,r,u,g,l,x,y,z,w}	
[1,0,1,0,1]	{s,t, a1,f,a2,r,u,g}	{l,x,y,z,w}
[1,0,1,0,1,0]	{s,t, a1,f,a2,r,u,g}	{l,x,y,z,w}
[1,0,1,0,1,1]	{s,t, a1,f,a2,r,u,g,l}	{x,y,z,w}

c)

p	PreSeqIncluding(t,p)	PostSeqExcluding(t,p)
[ ]	{s, t,a1}	{,f,a2,r,u,g,l,x,y,z,w}
[0]	{s, t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[1]	{s,t, a1,f,a2,r,u,g,l,x,y,z}	{w}
[0,0]	{s}	{t,a1,f,a2,r,u,g,l,x,y,z,w}
[1,0]	{s,t, a1,f,a2,r}	{u,g,l,x,y,z,w}
[0,1]	{s,t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[1,1]	{s,t, a1,f,a2,r,u,g,l,x,y,z,w}	
[0,1,0]	{s,t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[0,1,1]	{s,t}	{a1,f,a2,r,u,g,l,x,y,z,w}
[1,0,0]	{s,t,a1,f,a2}	{r,u,g,l,x,y,z,w}
[0,0,0]		{s,t,a1,f,a2,r,u,g,l,x,y,z,w }
[0,0,1]	{s}	{t,a1,f,a2,r,u,g,l,x,y,z,w }
[1,0,1]	{s,t,a1,f,a2,r,u,g,l,x}	{y,z,w}
[1,1,0]	{s,t, a1,f,a2,r,u,g,l,x,y,z}	{w}
[1,1,1]	{s,t, a1,f,a2,r,u,g,l,x,y,z,w}	
[1,0,1,0,1]	{s,t, a1,f,a2,r,u,g,l}	{x,y,z,w}
[1,0,1,0,1,0]	{s,t, a1,f,a2,r,u,g}	{l,x,y,z,w}
[1,0,1,0,1,1]	{s,t, a1,f,a2,r,u,g,l}	{x,y,z,w}