

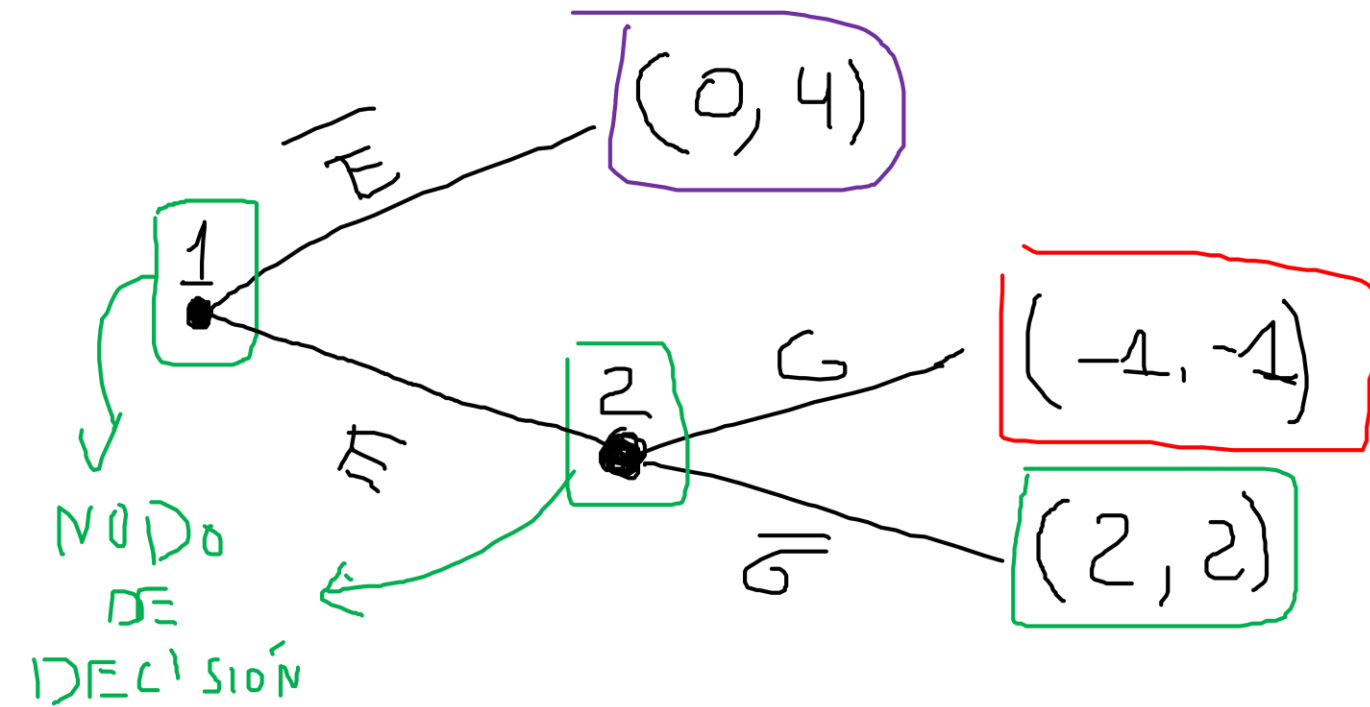
# Clases magistrales – Semana 8

Juegos y Comportamiento Estratégico (A128)

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# U3: JUEGOS DINÁMICOS

## → ARBOLES DE DECISIÓN



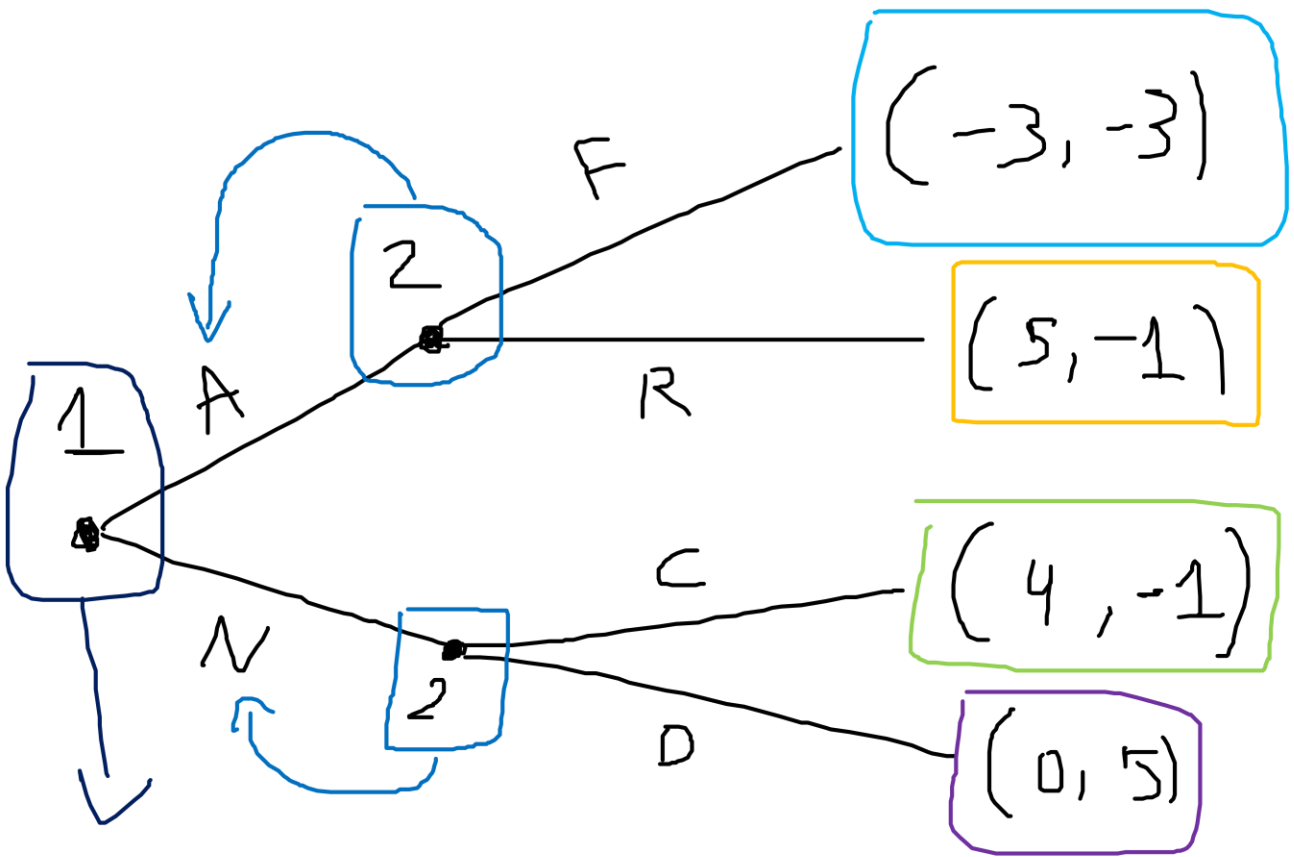
$$S_1 = \{E; \bar{E}\}$$

$$S_2 = \{G; \bar{G}\}$$

$$\begin{array}{cc} G & \bar{G} \\ E & -1, -1 \quad \boxed{2} \quad \boxed{2} \end{array}$$

$$\bar{E} \quad \boxed{0} \quad \boxed{4} \quad 0, \boxed{4}$$

$$EN_P = \{(\bar{E}, G); (E, \bar{G})\}$$



Nodos  
de Decisión

$$S_1 = \{A; N\}$$

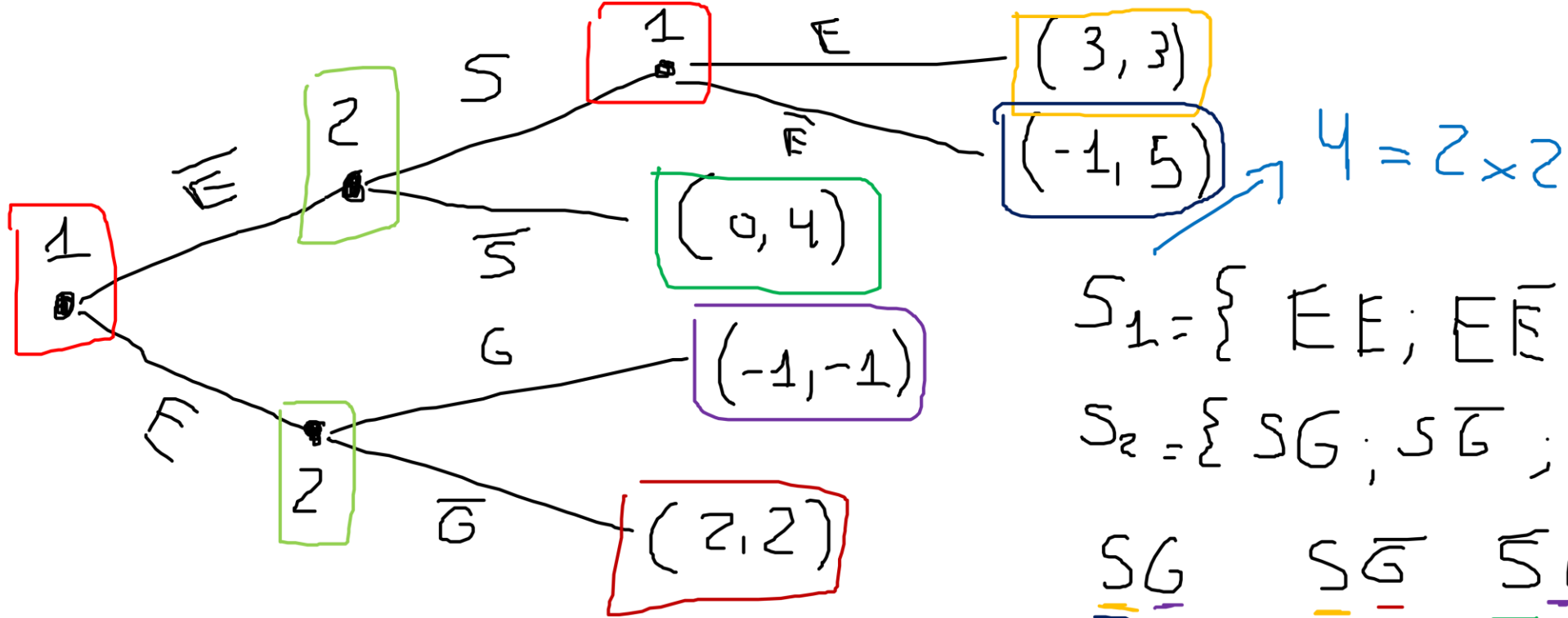
$$S_2 = \{FC; FD; RC; RD\}$$

1 ACCIÓN x/cada  
NODO DE DECISIÓN

|          | <u>FC</u> | <u>FD</u> | <u>RC</u> | <u>RD</u> |
|----------|-----------|-----------|-----------|-----------|
| <u>A</u> | -3, -3    | -3, -3    | 5, -1     | 5, -1     |

| <u>N</u> | 4, -1 | 0, 5 | 4, -1 | 0, 5 |
|----------|-------|------|-------|------|
|----------|-------|------|-------|------|

$$FN_P = \{(N, FD), (A, RC), (A, RD)\}$$



$$S_1 = \{ EE; EF; \bar{E}F; \bar{E}\bar{E} \}$$

$$S_2 = \{ SG; S\bar{G}; \bar{S}G; \bar{S}\bar{G} \}$$

$$EN_{1,2} = \{ (EE, \bar{S}\bar{G}); (E\bar{E}, \bar{S}\bar{G}); (\bar{E}E, SG) \}$$

|   | <u>SG</u> | <u>S</u> <u><math>\bar{G}</math></u> | <u><math>\bar{S}</math></u> <u>G</u> | <u><math>\bar{S}</math></u> <u><math>\bar{G}</math></u> |
|---|-----------|--------------------------------------|--------------------------------------|---|
| <u><math>\bar{E}</math></u> <u>E</u>                    | -1, -1    | 2, 2                                 | -1, -1                               | 2, 2  |
| <u>E</u> <u><math>\bar{E}</math></u>                    | -1, -1    | 2, 2                                 | -1, -1                               | 2, 2  |
| <u>E</u> <u>E</u>                                       | 3, 3      | 3, 3                                 | 0, 4                                 | 0, 4  |
| <u><math>\bar{E}</math></u> <u><math>\bar{E}</math></u> | -1, 5     | -1, 5                                | 0, 4                                 | 0, 4  |

¡Muchas gracias!