

# CS 170 Project Algorithm

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**Algorithm 1:** Graph Partitioning with Expectation maximization

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**Input:**  $(i, j), h_{i,j}, s_{i,j} \forall i, j, S_{max}$

**Output:** Dictionary of room : array of ids' in the room  
initialization;

**while** *While condition* **do**

    instructions;

**if** *condition* **then**

        instructions1;

        instructions2;

**else**

        instructions3;

**end**

**end**

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