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Scalable Data Infrastructures
C201507 Term
Time to play D&D

```
┌─────────────────────┐
│        Start        │
└─────────────────────┘
           │
           ▼
┌─┬───────────────────┐
│ │ creatureEncounter │
│ │ initiativeRoll    │
│ │ armorClassRoll    │
└─┴───────────────────┘
           │
           ▼
      / Pick a # 0-3 /
           │
           ▼
    Displays
    which
    creature is
    attacking you
           │
           ▼
      / Input your /
      / initiative /
      / roll /
           │
           ▼
┌─────────────────────┐
│ Calculates your roll + │
│ modifier for initiative │
└─────────────────────┘
           │
           ▼
    Displays
    initiative rolls
    of player and
    creature
           │
           ▼
┌─────────────────────┐
│ Calculates which    │
│ message to display  │
│ based on initiative │
│ roll values         │
└─────────────────────┘
           │
           ▼
    Displays who
    attacks first
           │
           ▼
      / Input your /
      / to hit roll /
           │
           ▼
┌─────────────────────┐
│ Calculates attack roll │
│ + your to hit modifier │
└─────────────────────┘
           │
           ▼
    Displays
    Attack Roll
    and creatures
    Armor Class
           │
           ▼
┌─────────────────────┐
│ Calculates which    │
│ message to display  │
│ based on attack roll │
│ values              │
└─────────────────────┘
           │
           ▼
    Displays if
    the attack is a
    hit or miss
           │
           ▼
┌─────────────────────┐
│       Finish        │
└─────────────────────┘
```