Agent	Pit	Gold	
		Wumpus	

Wumpus-problem-2.pddl

```
(define (problem xumpus-problem-2)
(idomain xumpus-chanian)
(subjects xq-1-1 sq-1-2 sq-1-3 sq-1-4 sq-2-1 sq-2-2 sq-2-3 sq-2-4 sq-3-1 sq-3-2 sq-3-3 sq-3-4 sq-4-1 sq-4-2 sq-4-3 sq-4-4 the-gold the-gold2 the-gold3 the-arrow agent xumpus)
(int)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(:action move-wumpus
 :parameters (wumpus sq-2-3 sq-3-3)
 :precondition
     (is-wumpus wumpus)
     (at wumpus sq-2-3)
     (adj sq-2-3 sq-3-3)
     (not
       (pit sq-3-3)
     (not
       (wumpus-in sq-3-3)
 :effect
   (and
       (at wumpus sq-2-3)
      (at wumpus sq-3-3)
        (wumpus-in sq-2-3)
      (wumpus-in sq-3-3)
```

Found Plan (output)

```
(move-wumpus wumpus sq-2-3 sq-3-3)
```

(move-agent agent sq-I-I sq-2-I)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-I-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-I-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-I)

(move-agent agent sq-2-I sq-I-I)

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(:action move-agent
 :parameters (agent sq-2-3 sq-2-2)
  :precondition
      (is-agent agent)
      (at agent sq-2-3)
      (adj sq-2-3 sq-2-2)
      (not
        (pit sq-2-2)
      (not
        (wumpus-in sq-2-2)
  :effect
    (and
        (at agent sq-2-3)
      (at agent sq-2-2)
    )
)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(move-wumpus wumpus sq-2-3 sq-3-3)

(move-agent agent sq-1-1 sq-2-1)

(move-agent agent sq-2-1 sq-2-2)

(move-agent agent sq-2-2 sq-2-3)

(move-agent agent sq-2-3 sq-1-3)

(take agent the-gold sq-1-3)

(move-agent agent sq-1-3 sq-2-3)

(move-agent agent sq-2-3 sq-2-2)

(move-agent agent sq-2-2 sq-2-1)

(move-agent agent sq-2-1 sq-1-1)
```

```
(:action move-agent
  :parameters (agent sq-2-1 sq-1-1)
  :precondition
    (and
      (is-agent agent)
      (at agent sq-2-1)
      (adj sq-2-1 sq-1-1)
      (not
        (pit sq-1-1)
      (not
        (wumpus-in sq-1-1)
  :effect
    (and
      (not
        (at agent sq-2-1)
      (at agent sq-1-1)
)
```