```
(define (domain warehouse)
        (:requirements :strips :typing :adl :fluents :durative-actions)
        (:types
                robot
                zone
                pallet)
        (:predicates
                (robot_available ?robot - robot)
                (robot_at ?robot - robot ?zone - zone)
                (pallet_at ?pallet - pallet ?zone - zone)
                (pallet_not_moved ?pallet - pallet)
                (is_unload_zone ?zone - zone)
                (is_shelf_zone ?zone - zone)
                (is_recharge_zone ?zone - zone))
        (:functions
                (distance ?from - zone ?to - zone)
                (speed ?robot - robot)
                (battery_level ?robot - robot))
```

```
(define (problem robot_warehouse)
    (:domain warehouse)
    (:objects
        tars - robot
        charging_station unload_zone shelf_1
        shelf_2 shelf_3 shelf_4 - zone)
    (:init
        (robot_at tars charging_station)
        (robot_available tars)
        (is_recharge_zone charging_station)
        (is_unload_zone unload_zone)
        (is_shelf_zone shelf_1)
        (is_shelf_zone shelf_2)
        (is_shelf_zone shelf_3)
        (is_shelf_zone shelf_4)
        (= (battery_level tars) 100)
        (= (speed tars) 0.26)
        (= (distance zone_1 zone_2) computed_distance)
        (= (distance zone_2 zone_1) computed_distance)
                                    :
                                    :
```