Write STRIPS operators that would enable a planner to build plans that it could give to photocopier repair robots.  
Use the following predicate symbols:  
copier(x) : x is a photocopier  
robot(x) : x is a robot  
noToner(x) : x has no toner  
hasToner(x) : x has toner  
hasPaper(x, n) : x has n sheets of paper  
at(x, y) : x is at y  
replaceToner(x, y): To replace the toner, the copier (y) must be out of toner,   
insertPaper(x, y, n): To put n sheets of paper into the copier (y),

1. replaceToner(x, y)

Preconditions:

- robot(x)

- copier(y)

- at(x, y)

- noToner(y)

- hasToner(x)

Postconditions:

- ¬noToner(y)

- ¬hasToner(x)

- hasToner(y)

Action:

- Remove toner from robot x and put it into copier y.

2. insertPaper(x, y, n)

Preconditions:

- robot(x)

- copier(y)

- at(x, y)

- hasPaper(x, n)

Postconditions:

- hasPaper(y, n\_old + n) (where n\_old is the initial number of sheets in copier y)

- hasPaper(x, n - n) (robot x has used up n sheets of paper)

Action:

- Insert n sheets of paper from robot x into copier y.

3. makeCopy(x, y)

Preconditions:

- robot(x)

- copier(y)

- at(x, y)

- hasToner(y)

- hasPaper(y, n) (where n ≥ 1)

Postconditions:

- hasPaper(y, n - 1) (one sheet of paper has been used)

Action:

- Make a copy using one sheet of paper from copier y.

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