

```
START

IMPORT random

SET boxes["Gold", "Silver", "Bronze", "Diamond", "Empty"]
SET selected_boxes TO []
DECLARE num_boxes AS int

OUTPUT ("How many boxes would you like to open? (1 to 5):")
INPUT num_boxes
WHILE (num_boxes <1 || num_boxes > 5) DO
    OUTPUT ("Invaled number. Choose between 1 and 5:")

FOR i IN (num_boxes) DO
    SET box TO random IN (boxes)
    SET selected_boxes TO (box)
    OUTPUT ("Box + (i + 1) + : + (box)")

IF "Diamond" IN selected_boxes DO
    OUTPUT ("You found the rare diamond box")
ELSE
    OUTPUT ("Better luck next time")

END
```