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IT 145
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```java
package petBag;
import java.util.Scanner;
public class PetBagExample {
        public static void main(String[] args) {
```
Initialize input variables below
```java
                Scanner scnr = new Scanner(System.in);
                String petType;
                String petName;
                String groomAnswer;
                String dogConfirm;
                String finalDogConfirm;
                String catConfirm;
                String finalCatConfirm;
                int petAge = 0;
                int spaceDog = 30;
                int spaceCat = 12;
                int stayedDays = 0;
                int amountDue = 0;
                int dogWeight = 0;

                System.out.println("Welcome to petBAG!");
                System.out.println("There are " + spaceDog + " spaces available for dogs.");
                System.out.println("There are " + spaceCat + " spaces available for cats.");
```
Show how many spaces are available to rent
```java
                System.out.println("Dog or Cat?: ");
                petType = scnr.next();
```
Get input for dog or cat, initialize specialized instance for either
```java
                if (petType == "Dog") {
```
If statement to show specialized instance
```java
                    if (spaceDog >= 1) {
```
Checks to see if there is space available
```java
                        System.out.println("Pet Name?: ");
                        petName = scnr.next();
                        System.out.println("Age?: ");
                        petAge = scnr.nextInt();
                        System.out.println("How long is their stay?: ");
                        stayedDays = scnr.nextInt();
```
Get input of name, age, and how long the stay is
```java
                if (petType == "Dog") {
                        System.out.println("Dog Weight?: ");
                        dogWeight = scnr.nextInt();
                        if (stayedDays >= 2) {
```

```java
                                        System.out.println("Would you like them groomed?(Y/
N): ");

                                        groomAnswer = scnr.next();
```

Get input of groom choice and weight IF stay is 2 days or longer AND if pet type is dog

```java
                                        System.out.println("Confirm your appointment?(Y/N):
");

                                        dogConfirm = scnr.next();
                                        if (dogConfirm == "Y") {
                                                spaceDog = spaceDog - 1;
```

Change amount of space available if confirmed stay

```java
                                                System.out.println("Appointment Confirmed!");
                                                System.out.println("There are " + spaceDog + "
dog spaces left!");

                                                System.out.println("Your dogs name is " +
petName);

                                                System.out.println("Their Age is " + petAge);
                                                System.out.println("Their stay will be " +
stayedDays + "day(s) long!");

                                                System.out.println("They weigh " + dogWeight +
"pounds!");

                                                System.out.println("Grooming?" +
groomAnswer);

                                                System.out.println("Does everything look
correct?(Y/N): ");

                                                finalDogConfirm = scnr.next();
```

Output choices to verify that everything is correct and finalize input

```java
                                                if (finalDogConfirm == "Y") {
                                                        System.out.println("Thankyou for using
petBag! See you next time!");

                                                }
                                                if (finalDogConfirm == "N") {
                                                        System.out.println("Let's change that
next time! Bye!");
```

End of program

```java
                                                }
                                        }
                                }

                        }
                }
                        if (petType == "Cat") {
                                if (spaceCat >= 1) {
```

Cat instance

```java
                                        System.out.println("Confirm your appointment?(Y/N): ");
```

```java
                                catConfirm = scnr.next();
                                if (catConfirm == "Y") {
                                        spaceCat = spaceCat - 1;
                                        System.out.println("Appointment Confirmed!");
                                        System.out.println("There are " + spaceCat + " cat
spaces left!");

                                        System.out.println("Their stay will be " + stayedDays +
"day(s) long!");

                                        System.out.println("Does everything look correct?(Y/N):
");

                                        finalCatConfirm = scnr.next();
                                        if (finalCatConfirm == "Y") {
                                                System.out.println("Thankyou for using petBag!
See you next time!");

                                        }
                                        if (finalCatConfirm == "N") {
                                                System.out.println("Let's change that next time!
Bye!");
                                }
                        }
                        }
                }}}
```

```
                    START
                      │
          ┌───────────┴───────────┐
          │                       │
   IF PET = DOG             IF PET = CAT
          │                       │
          │                       │
  IF DOG SPACES >= 1       IF CAT SPACES >= 1
          │                       │
          │                       │
     GET INPUT                GET INPUT
          │                       │
          │                       │
 IF DOG STAY >= 2 DAYS    IF ALL INPUT CORRECT
          │                       │
          │                       │
   GROOM INPUT              - 1 CAT SPACES
          │                       │
          │                       │
 IF ALL INPUT CORRECT          END
          │
          │
   - 1 DOG SPACES
          │
          │
        END
```