AP Computer Science   Name_____
Queue Lab

PICK-A-PUP, Inc.

If you've never heard of Pick-A-Pup Inc., it's no surprise. This fly-by-night operation doesn't stay very long in one town. It is able to offer its puppy adoption service at a very competitive price because of the very uncomplicated compatibility algorithm it employs. The company keeps two first-in / first-out files: one file of clients and one of available puppies. When a new customer signs up he or she is automatically paired with whatever puppy happens to be at the front of their file. These files are actually in boxes. This gives the company very fast customer throughput and avoids complicated paperwork.

It accepts the names and "type" of clients from the keyboard, and announces a match whenever it is able to make one. The program terminates when "SPCA" (Society for the Prevention of Cruelty to Animals) or "BBB" (Better Business Bureau) is entered as a client name. Your job is to write this program using the Queue class.

Sample Output:

```
Welcome to Pick - A - Pup Exclusive Puppy Adoption Service

Client Name :  Marsha
Please type Human or Puppy  Human
We don't have a match for you right now,
but one is sure to turn up soon.

Client Name :  Barbie
Please type Human or Puppy  Human
We don't have a match for you right now,
but one is sure to turn up soon.

Client Name :  Jack
Please type Human or Puppy  Puppy
* * * * * We have a match ! Marsha can adopt Jack

Client Name :  Bill
Please type Human or Puppy  Human
We don't have a match for you right now,
but one is sure to turn up soon.

Client Name :  Spot
Please type Human or Puppy  Puppy
* * * * * We have a match ! Barbie can adopt Spot

Client Name :  BBB
Because of the Better Business Bureau, we left town.
```