Using Pipes for InterProcess Communication

Your task is to write a C program that demonstrates inter-process communication using unnamed pipes between a parent and child process. The program will perform the following tasks:

1. Parent Process (P1):

- Accepts a filename as a command-line argument.
- o Opens and reads the contents of the specified file.
- Sends the file content to the child process (P2) through a pipe.
- Receives the processed text from the child process (P2) through a second pipe.
- Prints the received text and writes the processed content into a file called output.txt.

2. Child Process (P2):

- Reads the file content sent by the parent process.
- Processes the content by numbering each line in the format "line_number. content" (e.g., 1. First line, 2. Second line).
- Sends the processed content back to the parent process via another pipe.

Sample input:

```
Clash Of Clans
Barbarian --> Barbarian King
Archer --> Archer Queen
Wizard + Healer --> Grand Warden
Goblin, Giant
Wall Breaker, Balloon
Dragon
P.E.K.K.A
Baby Drags, Miners
Electro Drags
```

Output.txt:

```
    Clash Of Clans
    Barbarian --> Barbarian King
    Archer --> Archer Queen
    Wizard + Healer --> Grand Warden
    Goblin, Giant
    Wall Breaker, Balloon
    Dragon
```

```
8. P.E.K.K.A
9. Baby Drags, Miners
10. Electro Drags
```

Terminal:

```
    hp@HP:~/Desktop/Pipes/TakeHomeNew$ gcc soln.c
    hp@HP:~/Desktop/Pipes/TakeHomeNew$ ./a.out input.txt

 P2(8252)(par = 8251) received: Clash Of Clans
 Barbarian --> Barbarian King
 Archer --> Archer Queen
 Wizard + Healer --> Grand Warden
 Goblin, Giant
 Wall Breaker, Balloon
 Dragon
 P.E.K.K.A
 Baby Drags, Miners
 Electro Drags
 P1(8251)(par = 8107) received: 1. Clash Of Clans
 2. Barbarian --> Barbarian King
 3. Archer --> Archer Queen
 4. Wizard + Healer --> Grand Warden
 5. Goblin, Giant
 6. Wall Breaker, Balloon
 7. Dragon
 8. P.E.K.K.A
 9. Baby Drags, Miners
 10. Electro Drags
hp@HP:~/Desktop/Pipes/TakeHomeNew$
```