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CMSC 203; 30503

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Pseudocode:

1. Print through dialogue box: “Welcome to the Toy Company to chose gifts for young children.”
2. Declare double totalCost and initialize to 0
3. Declare Boolean flag and initialize to true
4. Declare Boolean cancelRequest and initialize to false
5. Declare string name
   1. Print through dialogue box: “What is the child’s name?”
6. Declare string ageString
   1. Print through dialogue box: “How old is the child?”
7. Declare string toy
   1. Print through dialogue box: “Choose one toy: Plushie, Blocks, or Book”
8. Convert ageString to an integer and call it “age”
9. Create a new toy, use Toy(toy, age) constructor
10. If a.ageOK is false
    1. Declare string called ageNotOK
    2. Print through dialogue box: “This toy is not age-appropriate. Do you want to cancel the request? (Yes or No)"
       1. If ageNotOK is “yes”
          1. Cancel the request
11. If cancelRequest is false
12. Declare string card
    1. Print through dialogue box: “Would you like a card with the toy? (Yes or No)"
       1. A.addCard (card)
13. Declare string balloon
    1. Print through dialogue box: “Would you like a balloon with the toy? (Yes or No)"
       1. A.addBalloon (balloon)
14. Declare double cost
    1. Cost = a.getCost()
    2. Print (a.toString())
15. Add cost to totalCost
16. Declare secondToy
17. Print through dialogue box: “Do you want another toy? (Yes or No)”
    1. If second toy is “no”
       1. Flag is false.
18. Print: “Birthday Gift”
19. Print: "The gift for " + age + " year old " + name + " is " + toy + " for $" + dollar.format (a.getCost())
    1. While flag is true
       1. Declare integer orderNumber
          1. (A random number \* 90000) + 10000
20. Print total cost
21. Print order number
22. Print programmer name

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| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | Suzie Smith  2  Plushie  No  No  No | Suzie Smith  2  Plushie  No  No  No | $25 | $25 | yes |
| 2 | Pogo  2  Plushie  No  Yes  Yes  Onks  4  Blocks  Yes  No  No | Pogo  2  Plushie  No  Yes  Yes  Onks  4  Blocks  Yes  No  No | $53.95 | $53.95 | yes |
| 3 | Mah  7  Book  Yes  No  No | Mah  7  Book  Yes  No  No | $17.95 | $17.95 | yes |