```python
 1  # Python code to play 21 Number game
 2  def nearestMultiple(num):
 3      if num >= 4:
 4          near = num + (4 - (num % 4))
 5      else:
 6          near = 4
 7      return near
 8
 9
10  def lose1():
11      print("\n\nYOU LOSE !")
12      print("Better luck next time !")
13      exit(0)
14
15
16  def check(xyz):
17      i = 1
18      while i < len(xyz):
19          if (xyz[i] - xyz[i - 1]) != 1:
20              return False
21          i = i + 1
22      return True
23
24
25
26  def start1():
27      xyz = []
28      last = 0
29      while True:
30          print("Enter 'F' to take the first chance.")
31          print("Enter 'S' to take the second chance.")
32          chance = input('> ')
33
34          if chance == "F":
35              while True:
36                  if last == 20:
37                      lose1()
38                  else:
39                      print("\nYour Turn.")
40                      print("\nHow many numbers do you
    wish to enter?")
```

```python
41                        inp = int(input('> '))
42
43                        if inp > 0 and inp <= 3:
44                            comp = 4 - inp
45                        else:
46                            print("Wrong input. You are
    disqualified from the game.")
47                            lose1()
48
49                        i, j = 1, 1
50
51                        print("Now enter the values")
52                        while i <= inp:
53                            a = input('> ')
54                            a = int(a)
55                            xyz.append(a)
56                            i = i + 1
57
58                        last = xyz[-1]
59
60
61                        if check(xyz) == True:
62                            if last == 21:
63                                lose1()
64
65                            else:
66                                # "Computer's turn."
67                                while j <= comp:
68                                    xyz.append(last + j)
69                                    j = j + 1
70                                print("Order of inputs
    after computer's turn is: ")
71                                print(xyz)
72                                last = xyz[-1]
73                        else:
74                            print("\nYou did not input
    consecutive integers.")
75                            lose1()
76
77            elif chance == "S":
78                comp = 1
```

```python
 79                 last = 0
 80                 while last < 20:
 81                     j = 1
 82                     while j <= comp:
 83                         xyz.append(last + j)
 84                         j = j + 1
 85                     print("Order of inputs after
        computer's turn is:")
 86                     print(xyz)
 87                     if xyz[-1] == 20:
 88                         lose1()

 90                     else:
 91                         print("\nYour turn.")
 92                         print("\nHow many numbers do you
         wish to enter?")
 93                         inp = input('> ')
 94                         inp = int(inp)
 95                         if inp<0 or inp>3:
 96                             print("Wrong input. You are
        disqualified from the game.")
 97                             lose1()
 98                         i = 1
 99                         print("Enter your values")
100                         while i <= inp:
101                             xyz.append(int(input('> ')))
102                             i = i + 1
103                         last = xyz[-1]
104                         if check(xyz) == True:
105                             near = nearestMultiple(last)
106                             comp = near - last
107                             if comp == 4:
108                                 comp = 3
109                             else:
110                                 comp = comp
111                         else:

113                             print("\nYou did not input
        consecutive integers.")
114                             lose1()
115                 print("\n\nCONGRATULATIONS !!!")
```

```python
116                print("YOU WON !")
117                exit(0)
118
119            else:
120                print("wrong choice")
121
122
123 print("WELCOME TO BAGRAM GAME")
124 print("***********************")
125 print("\nPlayer 2 is Computer.")
126 print("Do you want to play the 21 BAGRAM game? (Yes
     / No)")
127 ans = input('> ')
128 if ans == 'Yes' or ans == 'yes':
129     start1()
130 else:
131     print("Do you want quit the game?(yes / no)")
132     nex = input('> ')
133     if nex == "yes":
134         print("You are quitting the game...")
135         exit(0)
136     elif nex == "no":
137         print("Continuing...")
138     else:
139         print("Wrong choice")
140
141
```