```
class Queue:
    # max_size: size of Q
    # Q: Array
    def __init__(self, max_size):
        self.max_size = max_size
        self.Q = [0] * max_size
         self.num = 0
         self.first = 0
    def enqueue(self, item):
         if self.num >= self.max_size:
        raise Exception("Queue overflow")
self.Q[(self.num + self.first) % self.max_size] = item
         self.num += 1
    def dequeue(self):
         if self.num == 0:
             raise Exception("Queue empty")
         item = self.Q[self.first]
        self.first = (self.first + 1) % self.max_size
self.num -= 1
         return item
    def front(self):
         if self.num == 0:
             raise Exception("Queue empty")
         return self.Q[self.first]
    def is_empty(self):
         return self.num == 0
    def size(self):
         return self.num
    def is_full(self):
         return self.num >= self.max_size
    def get_item(self, i):
    if i < 0 or i >= self.num:
             raise Exception("Index out of range")
         return self.Q[(self.first + i) % self.max_size]
# Rest of the program...
if __name__ == "__main__":
    # Rest of the program as previously provided...
```