Questions:

A. print(list[2]
B. print(list[::-1])
C. print(list[1:3])
D. print(list[3:7:2])

2.

a. For item, data in dictionary
        print(f{item}, {data}])
b. Append.dictionary{“time”: [2, 8, 1]}

Warmup questions:

1. Def n_tester:
        Return n < 19 or n > 100

2. sum_of_squares(n):
        Total = 0
        For i in range(1, n + 1):
            total += i ** 2
        Return total

3. multiply_until_1000(start):
        Result = start
        While result < 1000
            Result *= 2
        Return result

```
numbers = [1, 2, 3, 4, 5, 5, 5]
# print(numbers)

fruits = ["apple", "banana", "cherry"]
# print(fruits)

mixed = ["hello", 5, True, False]
# print(mixed)

# print(numbers[0])
# print(fruits[2])
# print(fruits[-1])

# print(fruits)
# fruits[0] = "grape"
# print(fruits)
```

```
# print(numbers)
# numbers.append(6)
# print(numbers)

# print(mixed)
# mixed.insert(1, False)
# print(mixed)

# print(fruits)
# fruits.remove("banana")
# print(fruits)

# print(fruits)
# fruits.pop(0)
# print(fruits)

# for fruit in fruits:
#     print(fruit)


# colors = ["blue", "green", "turquoise"]
# print(colors[1])
# print(colors[-1])
# colors.append("yellow")
# print(colors)
# for color in colors:
#     print(color)

# nums = [10, 20, 30, 40, 50, 60]
# print(nums)
# print(nums[1:5])
# print(nums[:3])
# print(nums[3:])
# print(nums[:])

# my_nums = [20, 40, 60, 80, 100, 120]
# print(my_nums)
# print(my_nums[::2])
# print(my_nums[1::2])
```

```
# letters = ["a", "b", "c", "d", "e", "f", "g"]
# print(letters[1:5])
# print(letters[::2])
# print(letters[::-1])
# print(letters[-3:])

# student = {
#     "name": "Ariana",
#     "year": 4,
#     "major": "Computer Science"
# }

# student["year"] = 5

# print(student["year"])

# student["school"] = "UC Berkeley"

# print(student)

# del student["school"]

# print(student)

# print(student.keys())

# print(student.values())

# print(student.items())

# for key in student:
#     print(f"{key} = {student[key]}")

# for key, value in student.items():
#     print(f"{key} = {value}")

pet = {
    "name": "Luna",
    "type": "cat",
```

```
    "age": 3
}

print(pet)

pet["age"] = 4

pet["favorite toy"] = "string"

print(pet)

for key, values in pet.items():
    print(f"{key}: {values}")
```