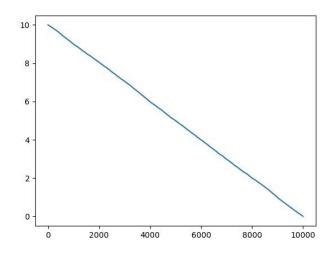
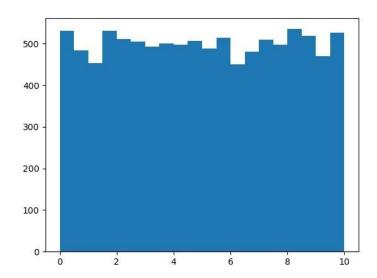
Problem Set 0

- a. Set x to an ndarray of integers 0-999 shuffled randomly.
- b. Set 'a' to a 2D array of ints. Then set 'b' equal to the 3rd subarray in the ndarray 'a'. 'a' and 'b' still reference the same data.
- c. Set a to a 2D array of ints. Then set 'b' equal to a 1D array of the elements in 'a' in the given order. 'a' and 'b' still reference the same data.
- d. Set x to a 5x1 ndarray of random floats from a Gaussian distribution with mean 0 and stdev 1. Then set y to a rank 1 array of all the floats from x that are greater than 0.
- e. Set x to an indarray of 10 elements all set to 0.5. Then set y to the same thing (but not a reference to the same data). Then set z to a 10 element indarray of all 1s by doing an elemental addition of each element in x and y.
- f. Set 'a' to an array of integers 1-99. Then set 'b' to a reversed list of the elements in 'a'.

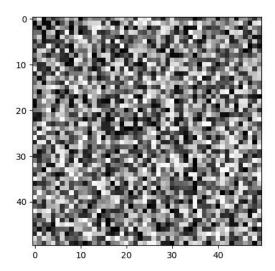
```
a. def random_dice(N):
    return np.ceil(np.random.rand(N) * 6)
b. def reshape_vector(y):
    return y.reshape((3,2))
c. def max_value(z):
    maxValue = np.max(z, keepdims=True)
    x, y = np.where(z == maxValue)
    return x[0], y[0]
d. def count_ones(v):
    return len(v[v == 1])
```



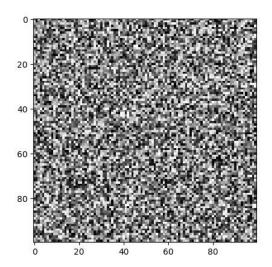
a.



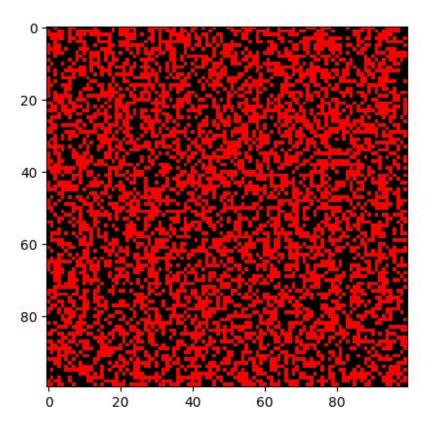
b.



c.



d.



e.

