AP Computer Science Principles
Ticket Out the Door
Set 11: Lossy data compression

Name _____ Period _____

Skill 11.02 Exercise 1
Navigate to https://studio.code.org/s/csp1-2021/lessons/10/levels/2   • Run the program by clicking on the orange "Run" button on the app.   • Choose your own image to explore with the app. Link to it by clicking "New Image" and pasting in the image URL.   • Find the highest compression rate (lowest number of bytes) possible where your image is still recognizable.   • Copy and paste your image below.

Skill 11.03 Exercise 1
Audio files are analog signals. Audio files can be compressed with lossy compression techniques. Name two factors that affect the quality of the converted file. How can these factors be changed to increase the quality?
Photos can be compressed with lossy compression techniques. Describe two techniques that can be used to compress photos.

Skill 11.04 Exercise 1
You are a photographer and are building a website to show case your work. How might you design your website to ensure your site is accessible to wide audience of users.

Name _____ Period _____