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CS 4080.02  
Professor Yang  
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Assignment #2

1. For this problem our task is to store 8000 randomly generated integers in the range of 1 to 1000 inclusively using different languages/methods. Note: in all above tasks store element one by one.

Task 1:   
![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE9jZWFuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1NQAAkpIAAgAAAAM1NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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V2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APpGiiigDIs/Etlf61/Ztqk7MYDOk5jxG6htp2knJ5PUDB7E1r1xUmv6OfiZDKNWsfLGmNEX+0pgP5o+XOevt1rtaucbWMqU+a+t7MKKKKg1CqF7rNvYXqW06ybmt5bkuoG1Uj27s85/iGPxq/XkXj7SWuvEOtXDeFvD90YdJZvtE8480722pIQYD842EAbun8Vd+Aw0MTV5Juy+Xp1a7kylZHea54mhs/Ciahb6jpemXV5CHsjrc4hiLEAgNg56HkCtkXSQ2kEl7PBG0m1dwfCM57KT1yelcR4jk0vwv8JLzTb5dI0OaawmSK0guFVJH2nOzKoXJ4J+XOTTvElzpHiTwXpC21zaanZtqdlHL5MqyoSJFypKkj6iuhYSM4xsmouTV7dNPl+PzJ5jsdO1jTNYSR9I1G0v1ifZI1rOsoRvQ7ScH2pkWu6RPq0mlQapZSajECZLNLhDMgHqgOR1HbvXPXEMo8fayunBY7l9BjEZAx8weUL+RNL4L1jw82iabo9pPbR6jBEPN05iPtEMoHzs8f3gc5yxHOc55rGeFioOcU2rL5XV7vy+75dXza2Lq6nq1v48i0q7msprG6tZbiIRWzxyxbGQAMxkYN9/qFXpW6t1A9xJAk8bTRANJGHBZAc4JHUZwfyriNQ8VeHo/ippyya9piGGwuYJA15GNkhkiwh54Y4PHXg1NPrWn6D491s6rcC3a7sbdrWMgl7or5gKxKOZGBI+VcnkccitZ4Sc4xfK0+W+2/vW/LUFJHUXGt6VaaWNSu9Ts4LBsYupLhFiOTgfOTjn61n+GfEkfiC01K8S4tZbS2vZIYbi3cMjxqAd27JB6nkcVxfhu/tdOtvB2oa7KllYDS5Vilu2EaRXDMvBJ4DldwHfqBSXTXWpeDddnsI3ijbXxNOtxas/7gNGWLRAqxXHzFcg4zW/9nwjeD6u3N0XvNffp38rdSed7no2ma1pWtwvLo2pWeoRxttd7SdZVU9cEqTg1drivDMkOreK31WLxboOryxWZgkg0iEISpYFWf8AfyHgggcD7xrta8vFUo0anLH8b6fel+RcXdFTUNVstKjhfULhIRPKsMQOSZHY4CqByT9O2T0FUNY1n7LqVhYWWo6RDdzTr5tvez7ZHiOc+WoOS2emeOtYPkz6D46k1PxNH/aMN5J5On6kiHbpwbAEBj52Bj/y1H3iQGxhaseONc0mzk0q2u9Ts4J49St5XiluEVlTJ+YgnIHv0qcVSjRjFxd7rfp6L063+7vvh4+0qctjqby+tNOtWudQuYbW3TG6WeQIi545J4pLfULO7sRe2t3BPaFSwnjlDRkDqdwOMDFczrN9YL4l0LWry7t20VYZvLuy6mBJm27HL9BlQ4DZ7471SFpYavB4pn+1fZtEvniKXcQBRnVRvlBOVKZC5b7p2nJ71yc2ptHDrlTd/wCna3r1Ort/EGjXdjNe2urWM9rb/wCunjuUaOP/AHmBwPxrM0LxxomuSPDFqVglz9pkgigW8R3mCkgOo6kEDPGfqar+FNauNR1a7tpbvTNXiggj2arpqbVY943+ZhuH3sBuh6DNN8LarYWN5qOj3l7b2+otqc7payyBJJFdt6lVPLAg9R70czdinRjFSVm2rden3f5G7Pr+j2siR3OrWMLySGJFkuUUs4IBUAnkgkcdeal1HV9N0iJJNW1C1sY3baj3Myxhj6AsRk1zHhfSNPvovFEd1aRSLe6lPDcHbhpEwBtJHOOT9M1U1WWbR/HE80+q6ZpNq9hFDaTapbtIjKC29FfzUAOdpIOSRj0o5na4KhBz5E3p+O2252l3qVjYWX2y+vLe2teP380qonPT5icc02PVtOlso7yK/tXtZTtjnWZSjnngNnB6H8q40X48MaFodrbappUlvcSzFNZuIv8ARLdfmYKoEnGQSq/OOAevSsW1xffbVuJYrqOTxPbFmit3gjkzGhJVGZjg9c5Ibr0NJ1GXHCJpu+n6Xt/WvyPSrbWtLvJo4rPUrS4lli86NIp1dnjzjeADkrnjI4pdL1ax1qyF3pdylxDuKFlyCrA4KkHlSD1BwRXnXhdEj1rRpFAVpNT1Uu397DsBn8APyrY0uGfW/Gx1/wANodM0sEpeXEkZxq5AwCseRgLjAlPJ6AFea7MNTjWpzlJ2t16ene76W+612ubE0lRmox1/4dr9DuaKKKwMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACisZvEsUN1BHd6ffWsFzN5EN1NGqo7nOBt3b1zjjcorZptNbkqSlsFFFFIoKKKoXus29hepbTrJua3luS6gbVSPbuzzn+IY/GqjGU3aKAv0Vz2ueJobPwomoW+o6Xpl1eQh7I63OIYixAIDYOeh5ArZF0kNpBJezwRtJtXcHwjOeyk9cnpWkqM4xUmt219wrosUVT07WNM1hJH0jUbS/WJ9kjWs6yhG9DtJwfamRa7pE+rSaVBqllJqMQJks0uEMyAeqA5HUdu9T7Kpdrlem/kF0X6K51dT1a38eRaVdzWU1jdWstxEIrZ45YtjIAGYyMG+/1Cr0rdW6ge4kgSeNpogGkjDgsgOcEjqM4P5U6lKULPe6v+n5gmS0VRuNb0q00sald6nZwWDYxdSXCLEcnA+cnHP1rP8M+JI/EFpqV4lxay2lteyQw3Fu4ZHjUA7t2SD1PI4pqhUcHUtotPmF1exvUVS0zWtK1uF5dG1Kz1CONtrvaTrKqnrglScGrtZyjKD5ZKzGFZE+tX8NxJHH4Z1WdEYqssctqFceo3TA4PuAfarmoarZaVHC+oXCQieVYYgckyOxwFUDkn6dsnoKNQ1bTtIhWXVb+1sY3bar3Myxqx64BYjmplFqKk9EXB62tf7/0M/8At7Uf+hT1j/v7Z/8AyRR/b2o/9CnrH/f2z/8AkitK51Gys7H7bd3lvBaYB8+WVVjweh3E45zVK/8AE2kWOgtqx1Kya1KsYZDcoEmYAnarZwScEcZqNuprG8tofn/mRf29qP8A0Kesf9/bP/5Io/t7Uf8AoU9Y/wC/tn/8kVJoPifSvENrE9hf2c1w0Kyy28FysjxZHQgc8E45AqnqHi6yi8QaZpWm39hc3NxeGC5gWZXliURuxO0NkHKgcildWvctQlzOPs9V6/5lj+3tR/6FPWP+/tn/APJFH9vaj/0Kesf9/bP/AOSKjbUdUt/G1vptxLaS2V3bzTRhLdkkj2FAAWLkN98/wipde1k2M1naWeo6RbXs86Zh1GfY0kROG2KDkt2HbNO/mLlu0lFa69f8xP7e1H/oU9Y/7+2f/wAkUf29qP8A0Kesf9/bP/5Ip+sa2dK1fTIJGgitbnzjPLMceWqJuznIA981ZOuaZ/Y0mrRXsNxYRKzvcW7ecoC9T8mc474pxTlLlT1JekVJwVn6/wCZDZ6ve3N2kM3h3UrNGzmeeS2KJx3CTM3twD1rVqO3uIbu2juLWVJoZVDxyRsGV1PQgjqKkqrNaMxk03orBRRRQSFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBwc3iLS/E3iOGOTVbK10vTbgOoluESS7nXphSchBnr3PSu8ooq5ST2M4Qcbtu7YUUUVBoFeRePtJa68Q61cN4W8P3Rh0lm+0TzjzTvbakhBgPzjYQBu6fxV67RXbgsW8JU9olf5tfkTKPMrHAeI5NL8L/CS802+XSNDmmsJkitILhVSR9pzsyqFyeCflzk07xJc6R4k8F6Qttc2mp2banZRy+TKsqEiRcqSpI+orvaK0jjVHllyvmUnK9+/yv03uLlOPuIZR4+1ldOCx3L6DGIyBj5g8oX8iaXwXrHh5tE03R7Se2j1GCIebpzEfaIZQPnZ4/vA5zliOc5zzXX0VnLFKdPkku3Xsra6aj5dbnB6h4q8PR/FTTlk17TEMNhcwSBryMbJDJFhDzwxweOvBqafWtP0Hx7rZ1W4Fu13Y27WsZBL3RXzAViUcyMCR8q5PI45FdtRV/WqVlHkduXlevnft/mLlZ5b4bv7XTrbwdqGuypZWA0uVYpbthGkVwzLwSeA5XcB36gUl011qXg3XZ7CN4o218TTrcWrP+4DRli0QKsVx8xXIOM16nRW7zJc/tFDW999Picu3n+ouTS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Task 2:   
![A screenshot of text

Description automatically 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hDuZHEaBdzHkscdSfWpKKKACiiigAooooAKyNR8JeHNYvxfat4f0u+u1AAuLmyjkkAHQbmBPFa9FAABgYHAooooAQgMpDAEEYIPemW9vDa28dvaxRwwxqFSONQqoB0AA4AqSigAooooAKKKKACiiigAooooAKKKKAKmpaVp+s2TWesWFtf2rEFoLqFZUJHIJVgRxWTB8P/AAbbXEc9t4S0KGaJw8ckemwqyMDkEELkEHvXQ0UAFFFFABWdq3h3RdfWJdd0ew1NYSTGLy1SbZnrjcDitGigDG03wb4Y0a9W80fw5pNhdKCFntbGKJwD1G5VBrZoooAKKKKAIpbaCeSKSeGOR4W3xM6AmNsEZUnocEjI9TUtFFABRRRQAUUUUAFFFFABRRRQAUUUUAQ3TXKW7Gxiimm42pNKY1P/AAIKxH5VzekaHrNvpGpabdm1tlvHnlW6tbl3eJpDkDaY16Z65/CuqoqlKysRKCk7s4608L6iX0OOeDTbFNIYN9os5GaSUYwVwUXaGyS3Lf1rsaKKJSctwhBQ2CiiipLCuT8XKl94i8N6RchZ7O8nnN1Zv8yTxrCxw6dGUMV4PGce1dZVSLStOg1SbUobC1jv51CS3SQqJZFHQM+MkD0JoAtIixxqkahEUAKqjAA9AKWiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/2Q==)

Task 3:   
![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE9jZWFuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NwAAkpIAAgAAAAM5NwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Task 4:   
![A screenshot of a social media post

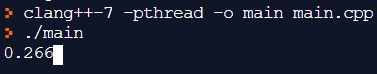
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Calculate the average computation time for each of above tasks by running the code 10 times and then take the average of the 10 test runs.

Task 1: Average: (0.336 + 0.225 + 0.266 + 0.227 + 0.254 + 0.219 + 0.255 + 0.221 + 0.215 + 0.326) / 10 = 0.544 milliseconds

1. ![A close up of a logo

   Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE9jZWFuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNAAAkpIAAgAAAAMxNAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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2. ![A screenshot of a cell phone

   Description automatically 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4. ![A screenshot of a cell phone

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5. ![A screenshot of a cell phone

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6. ![A screenshot of a cell phone

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7. ![A close up of a logo

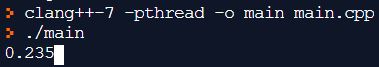
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8. ![A close up of a logo

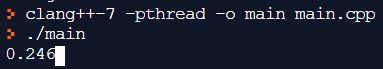
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9. ![A close up of a logo

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10. ![A screenshot of a cell phone

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Task 2: Average: (0.235 + 0.24 + 0.246 + 0.281 + 0.25 + 0.239 + 0.201 + 0.322 + 0.253 + 0.255) / 10 = 0.2522 milliseconds

1. 
2. ![A picture containing animal

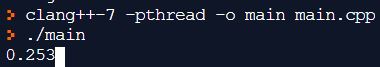
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3. 
4. ![A screenshot of a cell phone

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5. ![A screenshot of a cell phone

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6. ![A screenshot of a cell phone

   Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE9jZWFuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzNgAAkpIAAgAAAAMzNgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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7. ![A screenshot of a cell phone

   Description automatically 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8. ![A close up of a logo

   Description automatically 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9. 
10. ![A screenshot of a cell phone

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Task 3: Average: (2 + 1 + 2 + 2 + 1 + 1 + 2 + 1 + 1 + 1) / 10 = 1.4 millisecond

1. 
2. 
3. 
4. ![A close up of a logo

   Description automatically 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9. ![A close up of a logo

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Task 4: Average: (3 + 2 + 2 + 2 +2 + 3 + 2 + 3 + 3 + 3) / 10 = 2.5 milliseconds

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11. Task 1 vs. Task 2. Which one is easier to program? Which task runs faster or are they similar in performance? Why? i.e. Describe your observation and then briefly justify your answer.  
    C++’s heap dynamic array was most difficult to program, but because it directly goes to the addresses, it is most effective of the four programs.
12. Task 3 vs. Task 4. Which one is easier to program? What’s the advantage of using ArrayList? Which task runs faster or are they similar in performance? Why? i.e. Describe your observation and then briefly justify your answer.  
    Java’s ArrayLists were very intuitive and very simple to use. Its easy functions are easy to understand and very flexible. However, it is the longest run time of these four programs.

C++, Java, Python. Assume we have two sequences of values S1 containing 1, 5, 3, 6, 7, 8 while S2 containing 2, 5, 6, 9, 7. We’d store these two sequences as sets and performance set intersection and set difference. Write C++, Java, Python codes to do that respectively. Compare and contrast the readability and writability.  
Python:  
![A screenshot of a cell phone

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![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE9jZWFuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM4MgAAkpIAAgAAAAM4MgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RQAUUUUAFFFFABRRRQAUUUUAFFFFABXO+MdOa+tdPm+zyXUNneJNPBECWePBVsKOWxnOO4yOeldFRVRfK7kzipx5Wcx4fso4vEd7daRYyafpT26J5TW7W6yzAklxGwBGFwM4GffFdPRRRKXM7ihHkVgoooqSwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACq1697HEp063t55M/Ms87RAD1yEb8sVZqrqd29hpdxdRW8tzJFGWSGJCzSN2AA5601uKWxn6TrV5fa1fafd2NvD9jRC8tvdNKu5uQnMa845P1FbVZHhnS5NL0VFujvvbhjcXT/3pX5P5dPoK16crX0Jp83L724UUUVJYE4Uk9vQZrnvD2q/2prWrlNUuLiKNowljcaa9q1plT3dVZw2M5xXQOwRGdskKMnaCT+Q5NcXoOtQzeOtXkFlq0cV8LdYJZ9IuokYojbss0YC4/2iK7MPTc6VVpN2X6ry7dmtn0uS3Zo1n8b+H0uHi+3MxinNvM6W0rpbyBtuJXClY+ehcgHqMiqWreOYdM8XWelG2vnhkjlM7R6VdSncoUr5ZRCHHzHJXcBxyKy5tLvP+Fc+KLdLGf7RcXt08cQhO+UGT5SBjJyOh9K1vEBk07xFoWrvaXdxaW8c8E/2S3ed4y6rtYogLEZXHAOM12xw+GU7JN/Et1uo3XTq3p5/cTeVjpbW5S8tY7iFZVSRdyiaJonA90YBlPsQDVbVda0/RIIptUuBBHLIIkJVm3OQSBwD6GrNrcpeWsdxCsqpIu5RNE0Tge6MAyn2IBrn/GNlNeyaAIbZ7hYtYglk2xlgigN8x9ADjmvIkrNq1jQn0rxtoGtX0Vnpt80s8sTSqrW8qDC43KSygB1yMoTuGRkDNPtPF+jXmrJp0U9xHcS7vINxZzQx3GBk+VI6BJOOfkJ456V5/wCHdJ1jT7vQpoNIuBNbvrMm2WFkXe8hMe4kcb+xPWktTrusar4Uub6fxLezw6gsuoQ3WkR2trZv5T52kxLIVBOAweRfVskZkDtf7aFx8RYNOh1e6t1itJfM0yXSZES5YMv71LllAIXcBhSQd3tVzU/GGiaRqTadeXUjXyxLN9kt7WWeZoySNypGrMwBHJAOOM4yK5zVtdgT4oaXcfYNaeCztLq2mmj0S8dFd2i2gMsRDA7W+YEjjrWtZWcw+KeqXz20ggfSraOOdoyFJEkpZQ3rypI+lAF+/wDE9ha+EZPEFq4vLXyg8AiPMzE4VBnoSxA56HrUlja6w/hsxajqCpqk0bMZ4Yl2wO2SAqkYYLkDnk4561w8lnc2Pwj0+W8t5Yf7O1GO8uYpUKsIkuizEg+i/N9BXpaOssayRsHRgGVlOQQe9AGL4V12TWrG5ivkSLU9OuGtL6ND8okUA7l/2WUqw9mrcrlPCbfa/E3irUIVItZb6OCJ8jEjRRBXYY9Gyv1U11dAHN61fXs/jDStCsr6XT0mt5ryaaCONncRsiiP51YAHfycZ44I610lckVNp8VbaOd2vGu9OuJIpJgA1qqyRAxptABU5BywLZH3sYA62gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorI8SaxJo2nRTRCJTNOkHnT58uDccb3xjgfUZyORTSbdkTKSirs16Kw9I1S+m12+0y9e1uvssccn2m1jaNQWz8jKWbDcZ69COK3KGrMIyUldBRRRSKGSyiGPe2SMgce5x/Wn1Xvf+PX/AIGn/oQqxQAUyKUSqSuRhivPqDin1Xs/9XJ/12f/ANCNAFiisvXNeh0OO2D21xeXN5N5Nta2oXzJnwWIBdlUYVScswHFMk8RwWmgvqmq2l3pojYI9tcIrS7yQFUbGZXJJAG0kZOM9cAGvRXPWfiw3MtzazaDqlnqUMH2iPT7g2/mXEecZjZZTGeeCC4I4zgEVk+CvFutay1zHqXh7VQo1G4hF27WYjgRXIVGCTbiVxgkK2T3PWgDt6KwtU8URWet2+i6dbSalqkxV5IIWwttCTgyyv0QYzgHliMAdSKvjG9EH9nRXEetQW7XsBN7pk8UahzIAscm5w5RiQCAp471tRpOrNQXUTdkdLLEk0LxTIskbqVdGGQwPUEVl2Ph6DTPDjaLY3V3Db7XSGQSAyQKxOFRiOAucLnOABSa14jtdDurC2nt7q4n1B3jt47aPeXdV3bTyAMjucAdyBzVCXxZJPoOoXFho+om+smaGezJgEtu+zcGJMmwjBU/KzdenUVccNVmlJLR/wCdvuvpcOZG5pum2ukabBYafEIbeBdqIP5k9yepJ6mrVc34O13Uta0Oxl1HSL63ke0jka7uGt/LnYqMlRHIzDPXlR/SptB8UxaveXGmX1rJpmsWnM1jMwJKZ4ljbpJGf7w6HggHis61KVGbhK112dwTurlnVdBj1O/s76O8urC8s9wjntSmWRsbo2DqylTtHbIxwRWrRWJq/iUabqcWm2elX+rXzxGdrey8pTHHnbuZpZEXk8YBJ9qyGbdFZGo+IrfTbG0la1u57m9YJbWMcYE8r43FcMQq4AJJYgDHWs258YSS+H9Rn0/RdSOo2WY57A+Qs1s2wsrtulEbLjByrNn3wQADqaK5bwT4i1TXPDthNqmiajbyPZRytdztbbLhioztEcpIz15VR9OlJoviHWbzxve6Rq1paWsMVhFdxRRMXkQu7rtd87TwoOAuASRlupAOqorHuvE1nZ+L9P8ADksVwby/t5biKRY8xqsZUMGbPB+YdvrjIzsUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFYfiyy1C/0yGLT1aWMXCG6to5BG1xD/ABIGJAGfqMjIzW5RTTs7kyipRszmPDul3Vnrl5PBYPpOkyRKEsXkQ/vc8yKqMyoMcYB5POK6eiinKTk7sUIKCsgoooqSyve/8ev/AANP/QhViq97/wAev/A0/wDQhVigAqvZ/wCrk/67P/6EasVXs/8AVyf9dn/9CNAGR4v06DUtKjiu9Bn1uNJRIsVpcLDcROPuvG7PHtI9Q6n0zmuWk8Ia9qXgOexvJr55ItSS9sLa+1A/akhRg3kyXEbE7vvAMGYjK5Y4zXpFFAHHeFdGto9Za/k8O+IdOuo4DElxrOr/AGwFWILKg+0y45UE8Dp1p/h2PVdB1W/0yfQ7qe0utRmuodSgmgMSpId+HVpBICDkcI3bmuuooA5BfDd/4Z8RTap4WAubPVLkS6pp9xJ8xdsKbiKRuQQAMoTtIHy7T1f45GqXdrbWel6De6hsu7e5aaGW3RAI5VZl/eSq27C+mPeusorahW9jUVRJO3e/6NCaurHO3Vtfanrvh3UfsE1tHbmdriOd498O6PaoO1mByf7pNJpmj3aX3ij7TH5UWo3AaB9wO5fIRCeOnIPX0ro6K0+sz5eVJJWt/wCTc35/gLlOc8Hyana6NaaTqui3NpJY26wm5MsLwzFPlBTbIX5Az8yrVKx8N3+u+IrfxH4uUW81i7f2Xp1vLxag8F5HU/vHYdV+4Bxhj81dhRWVap7WbnZK/a/63GlZWCuO8baNFqNxBP8A8I5qt/dRRMlvf6LqCWlzb7gQQXaWI7ehxlgT1XgZ7Gishnnuq+FNbutH8NXeqm71XUNKR1vIrDUWtJpw64JSRGjBYYGQSobnp0rX8OaFbJpuqGLR9X0m4vl8qU6vqH2uWUBMKwfz5sAZIxkfSurooA5fwVLq1noVno2r6Dd2cmn2ywm6M0DwXBT5QU2yF+QM/Mq+9ZVhNrv/AAsy61ebwjq0FldWMNmJHnszsZZHYuwW4J24YdMn2rvaKAOV1/xJqul+PfDWj2Vlb3Njqvni6cufOh2LuDAdNvYn3HTv1VVodNsbfUJ76Cyt4ry5CrPcJEoklC/dDMBlsZ4z0qzQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRR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TxVyPw3pMXiiXxFHZKNWmt1tpLnc2WjByFxnHXvjNalFAGJqXhHSNU1Br6Zby3unULJLYahcWhlA6b/Jdd+OxbOO1X49Js49Sj1BYmN3Hb/ZllaRmPl5zg5PJyM5PPvVyigDFm8I6LPpZ09rR1gNy12piuJI5EmZixdJFYOhyx+6R1I6VY0rw9peiSTyaZaiGS4CiZy7O0pXOGYsSS3JJY8knJJrSooA53wxpeo6Dd3+lyKkujiQz6fMGAaJXJLQMvX5WyQ3TDAdqWz0q9vfGU+tavCkMVmjWumwhwzbWwZJmxwCxAAHZRzyxA6GigDlfEHhSXxJ4u0S9vI7WKy0Wf7XDMkjNPLJgjYV2hVToScsTgcL1rqqKKAKmpaZbaraG3vBLtzlXhmeGRD6q6EMpwSMgjgkd6r6b4c0vSrO4tra3aRLr/AI+GupnuZJ+MYd5CzOMcAEnA46Vp0UAYuleE9L0S6WfTm1FNilEhk1S5lhRfRYnkKADtheO2KW68KaVd60NWZLqC9+TfJaX09uJdhyvmLG6rJjp8wPHHStmigDnL3wFoN9r1zrMiahDqF0ixzT2mrXVuXVfuqRHIowPTFW9V8KaNrnhwaFrNq1/pwCZjuZ5JGbaQVJctvY5HUkk962KKAM7VtC0/W9NSx1CKQwRukkfkzvC8bKcqVeNlZSPYimad4c0vS7W4gt7dpVuuLh7uZ7mSYYxh3lZmYY4AJIA6VqUUAYemeEtN0WfztLfUI2VCkcMuqXMsCA9AIXkKADsAvHbFef2/hXxFDo66fbaZr1prnmk/2tHrnl6cj+ZuMgt0n+4R/B5HOcEdTXrlFAHPap4I0jW76K91R9SkuYSGRodWuoFjcLt3KkciqpwSMgDqa010WxW+tL0xu9zZwNbwyyTO7BG27gSSdxOxeTk8detXqKAM4aDpwstQtFtwIdSeR7pSxPmM4wx5PGR6cVU8K2+rado7adrQE7WLeTb3SsP9KhAGxiP4Wx8pB7jPQ1uUUAc94a0i6ivL/XNZiSLVNSKholIb7NCmRHFuHXGWYkcbmOOMVUg8JS3HxMbxbqEdrBJbWbWNqls5dpo2YNvlJUYI6BRkDJO45wOsooAKz9W0Oy1qNFvDdI0edslpeS20gB6jfEytg4HGccD0rQooAyV8L6MugNopsUawblo3ZmZmzneXJ3F887yd2ec55p+keH7PRGlazm1GQygBvtup3F2Bj0EsjbevbGa06KAMaz8KaTp2sS6lYpdW800jSyRR304t2dhhm8jf5eT1zt689eaoRfDrw9b313d2g1W1mvZzc3BttbvIllkPViqygeg6dAB0rqKKAMvVvDWka7Np02rWa3MmmXAubRmdh5cgGA3B5+hyKfrGgadr0USalDIzQPvhmgneCWJuhKSRsrrkcHBGRwa0aKAMmPwxpiafDZSLdXMMNwtzGbu+nncSKcqd8jliAR0zj2qy+kWEmpTX8lur3E9uLWVmJIeIEnaVPHVj271dooAwLDwRoGm3NtcWtnIZrR91tJNdTTGAbSuxC7HamCfkHyjrjNR32l6hZ+MrXW9HjSaG6RbTU7dnCnYCSkyk9SpJBHdW9QAejooA57xJpV7r97Y6YY0TRxItzfSswJm2HKQquc8sAWJ4wuOc8L410S68SeF7nQ7WGzaLUFMFxJdOw8mMjl1VVO9hxgEr654wegooAy4tAtI/DVvonmXQtoIEhV4bmSCTCAAfPGVYdOxFVNJ8FaLoltc21gl95F0jpLDPqVzOh3kliFkkYAkkksME561v0UAZx0HTTHpsZtvl0tg1mPMb90QhQd+flYjnNVbnwfo15qH2u5huZDvEhtzfT/ZmbOcm33+UTnnlevPXmtuigDH1XwtpWs3i3d0lzDdKnl/aLK9mtJGTOdrNC6lgDyASQKmOgae7aa0scsz6Wxa0kmuJJHQlShJZmJc7SRlifzrSooARlDqVcBlYYIIyCKx9F8KaT4e3rpMd1FCy7BbPfTywRrnOEidyiD2UDjjpWzRQBhWHg7SNLvo7nThf2/lsWS2j1O5Fsmc8CDzPKA5PG3A9K0tP0qz0v7T9hh8r7VO1xN8xbdI3VuScdOg4q3RQBg+LNHvNSsbe70Zo01bTZvtNn5pwjtgho2PZXUlc9sg9qs3+i2fiPTrX+2bSWGaPEq+VcvFNbuRyFliYMDyQSpwR7Vq0UAZC+FdGXQ5tINnvtLg7pvMld5JW4+dpGJcvwPmLbhgc8CmaT4R0XRdQa/sLVxevEYpLue4knmlTOcPJIzM+D03E4HAwOK2qKAMaPwppUOuvq9ul1b3UsnmyrBfTxwyvjG54VcRscdypzgVg+HfAdss19d69b3TzSarcXMVvJqEr27KZCY3MAcxZ6Hlcg4PUV29FAGPq3hXR9bvY7vUbeRpkTyy0VzLCJY858uQIwEiZ/hfI5PHJpyeF9Fj8NHw/Hp8S6UUKfZRnaqk5wOcjk5GOnGMYrWooAwJvBWi3Ph270K8W+u9OvD++jutTuZmYccB3kLAcDgED25qbSPCunaHOJrCXU2Kx+WqXWrXVxGF46JLIyjp1xkVs0UAcp4b8JSaf4v1vxRqEdrBfasscTW9m5eNUjyFYuyqWdsjPAAwBzjJu3fgvQr7Upb24tZi87B54Uu5kgnYd5IFcRyHgcspzgegreooAx9V8KaPrV5HdahbSNMieUTDcywiWPOfLkCMBImf4XyvJ45NPi8M6ND4bbQItPiXSmRo/snOwKSSQPTk8Y6dsYrVooA43xJ4NDeCbnSNEF/cNPcQOVuNUmlcKsqFtskshKYUE/KR7c1u6R4a0zRJJpbKOeSecBZJ7y7lupWUdF8yVmbaOTtzjJJxya1aKAOch+H/hqC7huE05me3mE9sJbmWRLVwSf3SMxWIEnkIAD0IOKt6v4W0rW7yK7vUuo7qFDGtxZ3s1rJsJyVLROpK5GcEkZrYooA5/VvBGh61rEGq30d6L+3gNvFcW2pXNu6xk5K5jkXqevr3q23hvTJfDk2hXUc93p9wjRypd3cs7urdQZHYv39eO2K1aKAKEOhaXB4fTQ0sYTpaQC2Fo670MQGNpBzkY9aq6X4V03R5Hazk1Jg0fl+Xc6rc3EYX0CSSMq/gBitmigDLTw5pUelWGmpa4tNOeN7WPzH/dsn3TnOTj3JqnfeBvD2pXd3Pe2DS/bQRcQ/aZRDIcbd5iDbN+APn27hgc10FFAGB4n0KfUdKtm0d0g1LTJVuLFpOV3KCCjf7LKWUntnParV/c6u3hsS6dYKuqTRoBBLKu23dsAlmBwwTJJx1xx1rVooAydH0lfDXhmKxska7e3iLHorXEhyzMSeAWYk88c1X8K6Pdada3N7q/lHVtTm+03nlHKocALGpPVUUBc8Z5OBmt6igDntN0m7ufFl3r+sQpFJGjWenw5DGKHdlnJHeQhTjsFXvmqmteEZPEHjvRdYvY7aC30J2mtpY5GaednXaUYbQEQcHgtuwPu9+sooAKKKKACiiigAooooAKKKKAM3WdQ0/RrU6nfopkjHlxbUDSuW/5Zp3JJA49vasHTvC97L4Tt7eaWOwuvt39oLGY/NWE+YXEeAV6cA4I71van4f07WLm2uL+OVprXJheK5kiMZPUjYw596cNEtRZtaiW+8tn3ljqE5fP+/v3Ae2cVopJLTcwlTcpNtaFTSdVvZNevtI1P7PLLbRxzJcWyMisr5GCpLbWBB/iOQa26qafpdnpiSLZxFTK26SR3aR5D6s7Es34mrdTJpvQ0gmlZhRRRUlhXJW0jWnxR1MW8L3gu7S1E/ksAbTb5uGfdgFW7bCzZHKgc11p4HrXNeHbLUJPE2ta3qFhJpyXiwQQ288kbyFYg2XPlsygEvwMk4HOOlAHS0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//Z)

I am more proficient, so I felt that Java had a better writability, although Python has very strong readability and writability for those who are new to coding. Python’s offers uncluttered simple-to-learn syntax which would help programmers that are utilizing it.