ELEC 4727/5727- Computer Vision

Integral Image

Hadi Abdelmawla

**Integral Image**

**[Part A] Integral Image-** Finish filling in 4 missing values of the integral image.

Image:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 3 | 10 | 10 | 4 | 5 | 9 | 1 | 7 | 5 | 4 | 7 | 10 | 0 | 1 | 8 |
| 6 | 9 | 1 | 1 | 6 | 10 | 1 | 7 | 9 | 8 | 5 | 1 | 4 | 0 | 9 | 3 |
| 8 | 3 | 3 | 5 | 4 | 10 | 0 | 6 | 10 | 6 | 9 | 7 | 9 | 1 | 9 | 0 |
| 1 | 4 | 8 | 4 | 9 | 3 | 5 | 4 | 10 | 10 | 3 | 1 | 1 | 5 | 7 | 7 |
| 4 | 0 | 8 | 3 | 7 | 8 | 6 | 8 | 4 | 9 | 6 | 6 | 2 | 3 | 2 | 7 |
| 10 | 6 | 4 | 8 | 6 | 3 | 3 | 7 | 4 | 1 | 9 | 5 | 2 | 9 | 9 | 9 |
| 7 | 6 | 8 | 2 | 5 | 8 | 8 | 2 | 3 | 5 | 9 | 2 | 5 | 1 | 6 | 9 |
| 8 | 0 | 8 | 8 | 10 | 8 | 3 | 8 | 8 | 5 | 8 | 0 | 8 | 6 | 6 | 9 |
| 0 | 10 | 1 | 5 | 7 | 7 | 6 | 8 | 3 | 5 | 5 | 9 | 6 | 10 | 3 | 0 |
| 8 | 8 | 4 | 5 | 2 | 2 | 4 | 8 | 1 | 3 | 2 | 8 | 3 | 3 | 7 | 6 |
| 0 | 6 | 3 | 4 | 8 | 7 | 9 | 2 | 8 | 5 | 2 | 0 | 7 | 0 | 8 | 7 |
| 0 | 1 | 8 | 3 | 2 | 10 | 5 | 7 | 3 | 4 | 4 | 6 | 3 | 2 | 9 | 9 |
| 4 | 5 | 0 | 7 | 4 | 1 | 1 | 1 | 0 | 4 | 6 | 7 | 2 | 7 | 0 | 9 |
| 1 | 0 | 10 | 10 | 3 | 5 | 10 | 6 | 1 | 6 | 1 | 3 | 7 | 7 | 6 | 3 |
| 2 | 4 | 2 | 6 | 7 | 7 | 5 | 3 | 4 | 10 | 2 | 3 | 5 | 6 | 6 | 8 |
| 8 | 3 | 9 | 8 | 5 | 9 | 10 | 8 | 0 | 3 | 8 | 5 | 9 | 8 | 4 | 3 |

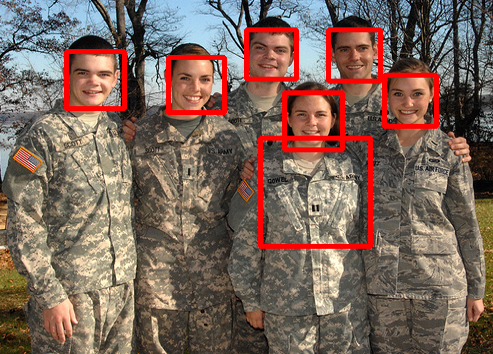
Image Integral:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 13 | 23 | 33 | 37 | 42 | 51 | 52 | 59 | 64 | 68 | 75 | 85 | 85 | 86 | 94 |
| 16 | 25 | 36 | 47 | 57 | 72 | 82 | 90 | 106 | 119 | 128 | 136 | 150 | 150 | 160 | 171 |
| 24 | 36 | 50 | 66 | 80 | 105 | 115 | 129 | 155 | 174 | 192 | 207 | 230 | 231 | 250 | 261 |
| 25 | 41 | 63 | 83 | 106 | 134 | 149 | 167 | 203 | 232 | 253 | 269 | 293 | 299 | 325 | 343 |
| 29 | 45 | 75 | 98 | 128 | 164 | 185 | 211 | 251 | 289 | 316 | 338 | 364 | 373 | 401 | 426 |
| 39 | 61 | 95 | 126 | 162 | 201 | 225 | 258 | 302 | 341 | 377 | 404 | 432 | 450 | 487 | 521 |
| 46 | 74 | 116 | 149 | 190 | 237 | 269 | 304 | 351 | 395 | 440 | 469 | 502 | 521 | 564 | 607 |
| 54 | 82 | 132 | 173 | 224 | 279 | 314 | 357 | 412 | 461 | 514 | 543 | 584 | 609 | 658 | 710 |
| 54 | 92 | 143 | 189 | 247 | 309 | 350 | 401 | 459 | 513 | 571 | 609 | 656 | 691 | 743 | 795 |
| 62 | 108 | 163 | 214 | 274 | 338 | 383 | 442 | 501 | 558 | 618 | 664 | 714 | 752 | 811 | 869 |
| 62 | 114 | 172 | 227 | 295 | 366 | 420 | 481 | 548 | 610 | 672 | 718 | 775 | 813 | 880 | 945 |
| 62 | 115 | 181 | 239 | 309 | 390 | 449 | 517 | 587 | 653 | 719 | 771 | 831 | 871 | 947 | 1021 |
| 66 | 124 | 190 | 255 | 329 | 411 | 471 | 540 | 610 | 680 | 752 | 811 | 873 | 920 | 996 | 1079 |
| 67 | 125 | 201 | 276 | 353 | 440 | 510 | 585 | 656 | 732 | 805 | 867 | 936 | 990 | 1072 | 1158 |
| 69 | 131 | 209 | 290 | 374 | 468 | 543 | 621 | 696 | 782 | 857 | 922 | 996 | 1056 | 1144 | 1238 |
| 77 | 142 | 229 | 318 | 407 | 510 | 595 | 681 | 756 | 845 | 928 | 998 | 1081 | 1149 | 1241 | 1338 |

Image Areas to Compute

|  |  |
| --- | --- |
| **Area** | **Area sum- Show your calculation** |
| **Red** | **1072 – 250 – 805 + 192 = 209** |
| **Blue** | **383 – 225 – 163 + 95 = 90** |

**[Part B] Accuracy-** For each of the following figure outcomes of face detection, list the achieved detection rate and false positive rate. Show each result as a fraction.



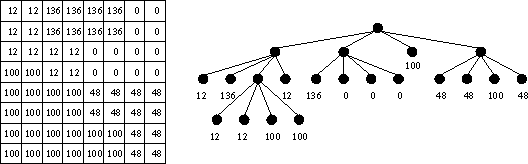
**Image A Image B**

|  |  |  |
| --- | --- | --- |
| **Image** | **Detection rate** | **False positive rate** |
| **A** | **1/5 \*100 = 20%** | **0** |
| **B** | **6/6 \*100 =100%** | **1/7 \*100 = 14.286** |

**[Part C] Integral Image-**

Generate the integral image for the following image data: Use Python/Jupyter Notebook.

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**![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhhZGkgQWJkZWxtYXdsYQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNDcAAJKSAAIAAAADNDcAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMjA6MDk6MDkgMjI6MTI6MDcAMjAyMDowOTowOSAyMjoxMjowNwAAAEgAYQBkAGkAIABBAGIAZABlAGwAbQBhAHcAbABhAAAA/+ELImh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMDktMDlUMjI6MTI6MDcuNDY3PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkhhZGkgQWJkZWxtYXdsYTwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAITArADASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGR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**[Part 3] Calculate IOU (Intersection over Union)**

In Python, given any two lists that defined the rectangles of the minimum and maximum corners:

Ground\_truth = [(3,6),(10,10)]

Prediction = [(7,-1),(15,7)]

To calculate the areas and intersection over union

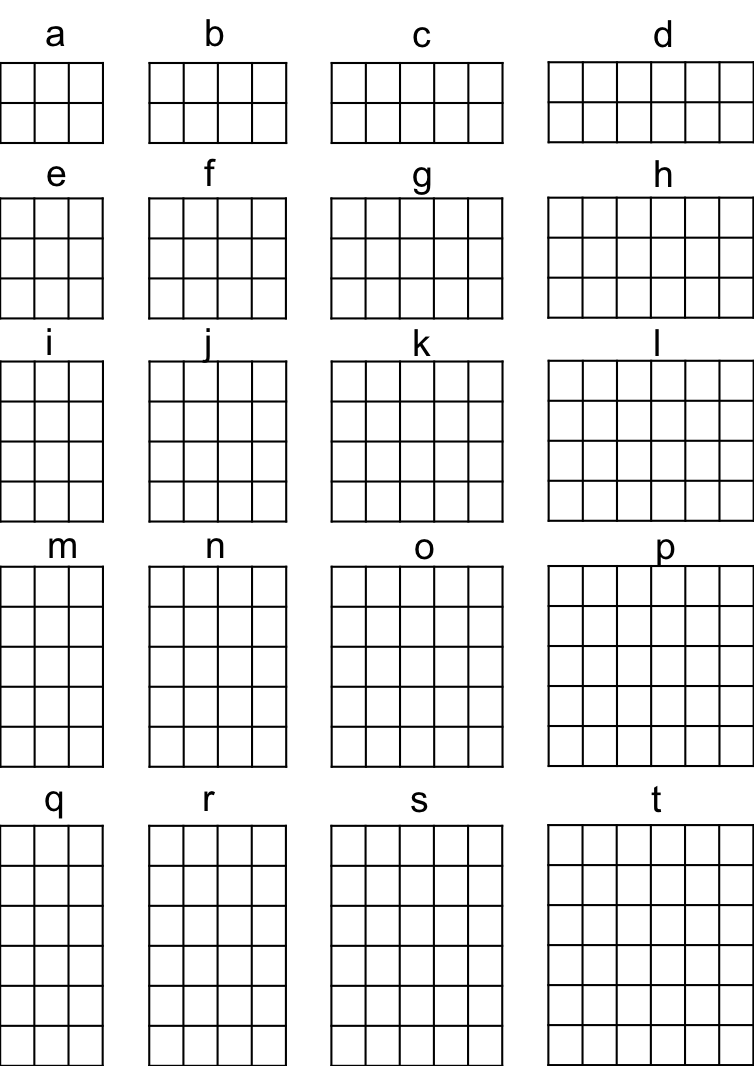
![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhhZGkgQWJkZWxtYXdsYQAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMjkAAJKSAAIAAAADMjkAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Feature Maps**

**[Part A] Object Features-** Using the Feature Type (3x2), show which of the following scaled views of the type are allowed using uniform scaling for a 6x6 window. Show your answer by coloring in the respective boxes of each candidate. Do not make any changes if the candidate map is not valid.

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pYhJt3bC1tMM474z0oA+BNV1STVNSv7n544rq6e58jzMqrMxPTuQDjNfRv7Mk+t2fgfVZLTSpL6zl1DEZ+0pGFcRruwG+q8j09q8I8YeB9T8Hatf2l7BcNDZ3rWou3hKRzcbkK5POVBbHOBjnmvq/9ni0Nn8GdNVl2tJLLK3HXc2R+mKANjxTqutvpdsJPDjxj+0LQg/bYzk+emB+J4r5l/aA1nTNV+IkkdjpUdhfWoKai6Or+bNx1I4JCgD6575r608Xf8gm1/wCwlZ/+lCV8j/GHwtDaeP8AV4fDz3esS2zzX2r3C2zAWzyyF8MRxhVKjd0yex4oA7v9kzTWbU/Eep5TbHDDbgY+bLMzfl8v8q+mq8E/Zb0XUNI0nxAdTtJbU3L28kSSqVZkxIA2D2PY9697oA5bW7m8tfHWlNYae185067DIJlj2jzIOctVz+19e/6Fl/8AwOiouv8AkoGm/wDYMu//AEbb1u0AcP4P1XW08K2qxeHHkXdLhvtsYz+8btR4h1XW2utD8zw46FdTQqPtkZ3HypOPatrwV/yKNp/vS/8Ao16PE3/H3oH/AGFU/wDRUtAC/wBr69/0LD/+B0VYuh6rra6trxTw47lr1Sw+2RjafJj4967esLw//wAhnxF/1/r/AOiI6AMbxbqmsy+FL5Ljw88EbIA0hvI22jcOcDk121YXjb/kS9S/65D/ANCFbtAFDXf+Rd1H/r1l/wDQDWHomra4vh/Twnhp2UWsQDfbYhkbBzW5rv8AyLuo/wDXrL/6AaNB/wCRb03/AK9Iv/QBQBy1/qutnxnozN4ccOLa62p9sj+b/VZOfb+tbf8Aa+vf9Cw//gdFRqP/ACPOh/8AXrd/+0a3aAOH8KarraaLIIvDjyD7ZcnP22Mc+c+RR4l1XW2j0vzPDjpjU4Cv+mRncd3Stvwf/wAgOT/r9uv/AEe9Hir/AFek/wDYVt//AEKgA/tfXv8AoWH/APA6KsTSdV1seJdeZfDjs7Swbl+2R/L+6HfvXcVhaN/yNXiL/rrB/wCiVoAyfFWq62/hHVVl8OPEhtZAz/bIztG084Fdfb/8e0X+4P5VleMP+RL1j/rzk/8AQTWrb/8AHtF/uD+VADpP9U/+6a+Vfjlr9w/w28J6Fd28NuxxdRhLnzGdFQoGZdo2/eOOfX0NfVUn+qf/AHTXxh8XdJ1u7udN1ibTLm30kW1rp1vO5B+0SBGfKKOcfMw+o9cgAHnCWsnkw3NwRFBLKUWRh/dwWwPQbh+f1psyxXV9L/Z8LQwYZo0kk3MqqM8tgZOB6DnoB0r0I/DHxjrvh3RtZ01tLvbW+eWW1sredB9mJ3SsjB8KBhM4LHHSuNv11RrWOOWPbaafO6GWCIeXFIxBYb0yD0GOeg4oA7b4Q2lxq3jHQrGx0qBptDu5dUvJZZBCXA8tY1ZyCQFcDA9XNfTfi3UfETeH8TaBbRr9rtDuGo7uftEeBjy+5wK8u+F/wH8K63az61ruryeIsXTIPs8223mwFbcSPmbk+o9xXtXi2GO38KxwwoEjju7JEUdFAuYgBQAv9p+Jv+hctf8AwZ//AGuvlT9obxTc638Q3065shZSabDHDMgl8wM+C4IO0cYkx0r7Jd1jRndgqqMlicACviL4r+KJ/HHju91aKCa3tLiERafvtSvn2sZY7+mSWdeD+BIAoA4GeZXgghRY8RqcuqYZiTk5PfHSoKmX7RcyZjV3aJAf3a/dVe/Hp61E7tJIzyMWZiSxPc0Adr8NLm6Txt4Zt9EnksdUl1Ty2ulxzDJsQjBGDgCT86+7a/OzSL240vUbTVbW8NrNZ3CNFIgDyRkHcGVDwcEd+Mmvtf4Mav4i134X6fqfi6UzXlyzvHKyBGeHd8hIAA55xxyMGgDvKKKKACiiigAqlqVlcXbWklpcRQSW05lzLCZAwMbpjAZcffznPartFAHI+NfCureLfB2o6M2oacr3UDJHI1i3yMRjIPmHHcZweCam8L+GdV8M6DFpsOqWUqxknc1g469v9bXUUUAYWqaPq+qWscL6nZRiO4inBFi5yY5FcD/W99uK5vSvhcdM8YeI9efUbS8PiFAlzaXOnl4Qv8Qx5nIPoa9BooAyNJ0abT9Svbye4gkNzHDGscFuYljWMMAMFm/ve2MVr0UUAZV/pV1PrlpqdldwwPb28sBSa3MgYO0bZ4dcY8v361L5Os/8/wDY/wDgC/8A8drQooAwdI0bV9I0uKyj1OykWMsQzWDgncxb/nr70uoaPq2oS2Lvqdkn2O5FwoFi/wAxCsuP9b/tfpW7RQBn+TrP/P8A2P8A4Av/APHapWOj6tY3d/Omp2TG9nEzA2L/ACkIq4/1v+zW7RQBh6to+q6vpU9hNqVmkc4CsyWL5AyDx+99q3KKKAIL62+26dc2u/Z58TR7sZ27gRnH41n2Wn6xZafb2q6jYsIIljDGxfnaMZ/1vtWvRQBhT6Pq0+s2eoHU7IPaRyxqgsXw2/bk/wCt7bP1q75Os/8AP/Y/+AL/APx2tCigDC0rR9X0qya3j1OykDTSS5Ni45dy2P8AW9s0alo+raktqH1OyT7Pcx3AxYuclDnH+trdooAz/J1n/n/sf/AF/wD47VK00fV7TUr+8XU7JmvWRmU2L4XagX/nr7Vu0UAYmqaTq+q6TdWEmpWSJcxNEzLYvkAjGf8AW1sxr5capnO0AZp1FACMNykdMjFctZeG9ds9Ls7D+1NGuIbPb5Jn0d2ZSvRv+Pj73uMV1VFAHgPxK+Bmo6ilve+FNN0N7xrgm7jsoZLDzIyDkczMhB74APoetYelfATxzfgaZfahD4d0X/lrBbahNcLID1Ai3bee+SK+mqKAPMPh/wDCK++G7Xx0HxFbyLeld6XOnyMq46YAnAzz1611GqaH4l1Wx+yza3pSL5sUuU0mTOY5Fcf8vHqorp6KAMGbT/E1xbyQy6vo7RyKUYf2TLyCMH/l5rxK++A3j+OO0TSPEekq+mQG0sbtXntpxBvdirFMjneQQc8AD1J+i6KAPjG7/Zw+ItpJiPS7a+XP3ra+iH/owrVIfBD4hW14ktt4VuJ0XBK3Dw4PqCBIeK+26KAPlfw38CvFWveMdLvvEfhjSfDmkWsiSXFvDJ5guFUgldvmO2Wxg5IA547H6mjjSKNY4lVEQBVVRgKB0AFOooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP//Z)

**[Part B] For each of the feature maps that you selected in Part A, list how many checks of that map are searched in a 6x6 window. If the map is not valid simply mark an “X” in the count column.**

In the 6x6 area (shown for reference only)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

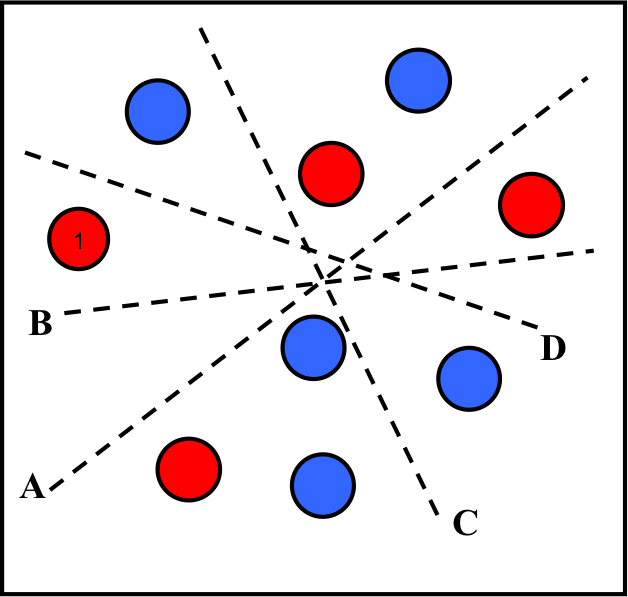
|  |  |  |  |
| --- | --- | --- | --- |
| Map | Count | Map | Count |
| a | 20 | k | 0 |
| b | X | l | 3 |
| c | X | m | X |
| d | 5 | n | X |
| e | X | o | X |
| f | X | p | X |
| g | X | q | 2 |
| h | X | r | X |
| i | 6 | s | X |
| j | X | t | 1 |

**[Part C: Graduate Student]** Assume the image is 640x480, how many 6x6 windows are there to check in the image? Show work by writing a Python script that takes into account any ImageWidth, ImageHeight, as well as any window size (WindowWidthxWindowHeight). The script function should return the number of evaluations and the locations using a list of coordinates of tuples (example: [(0,0), (0,1), (0,2)…]

**[Part D: Graduate Student]** Combine your answer in Part C (total of all checks) and Part B to calculate the total number of feature maps calculated.

**AdaBoost**

**Use the following 2-d diagram to solve the AdaBoost problem.**

****

9

8

7

6

5

4

3

2

**FOR ANY TIES, choose the letter nearest the start of the alphabet, such as A before B or B before D.**

**[Part 1] Phase1: Assume that each point classified in error has an error score of 1.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Classifier** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **Total** |
| **A (below line is blue)** |  |  |  |  | **1** | **1** |  |  |  | **2** |
| **B (below line is blue)** |  |  |  |  |  | **1** |  |  |  | **1** |
| **C (to right of line is blue)** |  |  | **1** |  | **1** |  |  |  |  | **2** |
| **D (below line is blue)** | **1** |  |  |  |  | **1** |  |  |  | **2** |

**[Part 2] Circle the best classifier (Phase1): ( A B C D )**

**B is the best one**

**[Part 3] Circle the points that the best classifier (Phase 1) had in error list: ( 1 2 3 4 5 6 7 8 9 )**

**6**

**[Part 4] Phase2: Assume that each point classified in error from the best classifier in Phase1 has an error score doubled for the next round. Re-calculate the total errors, but you do not need to re-score the best classifier line. Thus only 3 lines are given to you in the table:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Classifier** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **Total** |
| **A** |  |  |  |  | **1** | **2** |  |  |  | **3** |
| **C** |  |  | **1** |  | **1** |  |  |  |  | **2** |
| **D** | **1** |  |  |  |  | **2** |  |  |  | **3** |

**[Part 5] Circle the best classifier (Phase 1): ( A B C D )**

**C is the best classifier**

**[Part 6] Circle the points that the best classifier (Phase 2) had in error list: ( 1 2 3 4 5 6 7 8 9 )**

**3 and 5**

**[Part 7] Phase3: Assume that each point classified in error from the best classifier in Phase3 has an error score double if the classifier incorrect labeled the point. Only errors are boosted. Re-calculate the total errors, but you do not need to re-score the best classifier line. Thus only 2 lines are given to you in the table:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Classifier** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **Total** |
| **A** |  |  |  |  | **2** | **1** |  |  |  | **3** |
| **D** | **1** |  |  |  |  | **1** |  |  |  | **2** |