**1.** (1 point) What value is assigned to ‘c’?

|  |
| --- |
| a= 99;  b = 7;  temp1= round(a/b);  temp2 = a - temp1\*b;  c = temp1\*b + b\*a; |

|  |  |
| --- | --- |
| **ANSWER** |  |

- round(**x**): Rounds **x** to the nearest integer

**2.** (1 point) What will be the size of the resulting matrix ‘C’after the following operation?

|  |
| --- |
| A = [1 2; 3 4];  B = [5 6; 7 8];  C = A .\* B; |

|  |  |
| --- | --- |
| **ANSWER** |  |

**3.** (1 point) Which of a matrix has a different value compared to the other two among MatA, MatB, and MatC?

|  |
| --- |
| rvec = [13 15 17];  cvec = [12; 14];  MatA = [rvec; [16; cvec]']  MatB = [[13; 16] [15; 12] [17; 14]]  MatC = [13 16; 15 12; 17 14]' |

1. MatA

2. MatB

3. MatC

4. They are the same.

|  |  |
| --- | --- |
| **ANSWER** |  |

**4.** (1 point) Which of the following are valid operations?

|  |
| --- |
| rvec = [12 14 16];  cvec = [13; 15; 17; 19];  Mat = [12 13 14 15; 16 17 18 19; 20 21 22 23]; |

|  |  |
| --- | --- |
| (a) | Mat\*rvec |
| (b) | Mat\*cvec |
| (c) | cvec\*Mat |
| (d) | rvec\*Mat |
| (e) | rvec\*cvec |

1. (a), (b)
2. (b), (d)
3. (d), (e)
4. (a), (d)

|  |  |
| --- | --- |
| **ANSWER** |  |

**5.** (1 point) Which of the following scripts occur run-time or syntax error?

|  |  |
| --- | --- |
| (a) | Mat = ones(10,10);  Mat(1:2, 5:10) = []; |
| (b) | Mat = ones(10,10);  Mat = [1 2; 3 4]; |
| (c) | Mat = ones(10,10);  Mat(1, 1:2) = 3; |
| (d) | Mat = ones(10,10);  Mat(1, 5) = [2, 3]; |

1. (a), (b)
2. (a), (b), (c)
3. (a), (c), (d)
4. (a), (d)
5. All of the above
6. None of the above

|  |  |
| --- | --- |
| **ANSWER** |  |

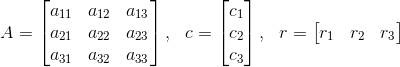
**6.** (3 point) The fliplr function is used to swap columns of any matrix is reverse order (horizontal), while the flipud function does the same but for rows (vertical). An implementation is given below. But the code is not working as expected. Explain why it does not work as expected.

|  |
| --- |
| 1. n=randi([4,15]); % given dimension 2. n\_mat=randi([1,100],n,n) % given matrix 3. fliplr\_mat=n\_mat; 4. fliplr\_mat(:,1:n)=fliplr\_mat(:,n:1) %flipping all columns 5. flipud\_mat=n\_mat; 6. flipud\_mat(1:n,:)=flipud\_mat(n:1,:) %flipping all rows |

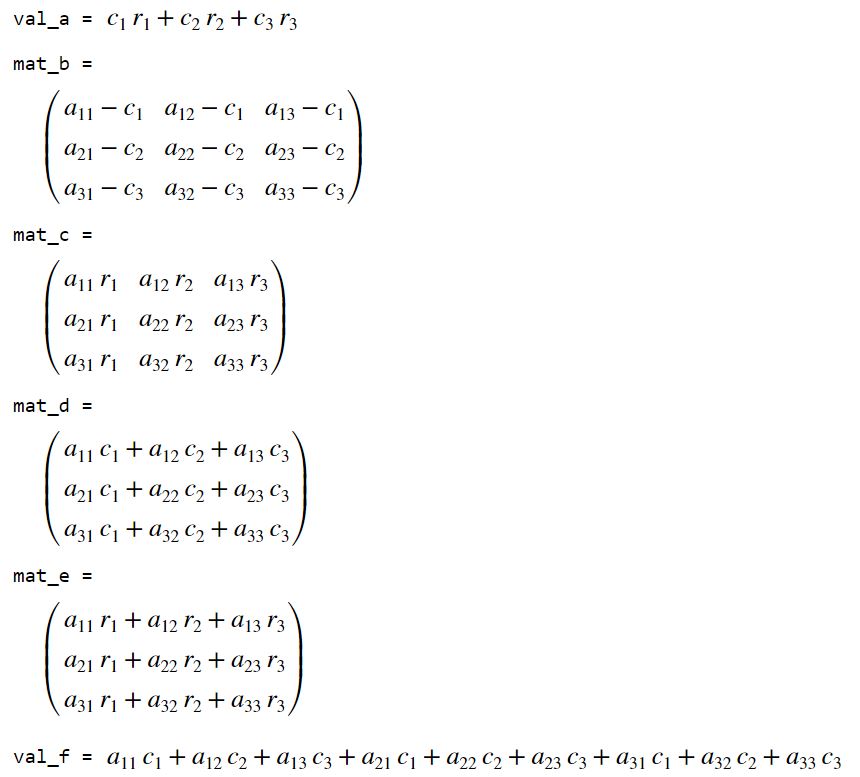
|  |
| --- |
| Unable to perform assignment because the size of the left side is 8-by-8 and the size of the  right side is 8-by-0. |

|  |  |
| --- | --- |
| **ANSWER** |  |

**7.** (4 point) Assume that matrix A, a column vector c, and a row vector r are defined as follows.



Then, val\_a, mat\_b, mat\_c, mat\_d, mat\_e, and val\_f are defined as follows.

![A table with equations and numbers

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENodWwgTWluIFlldW0AAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzU2AACSkgACAAAAAzU2AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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DU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kaKKr31/Z6ZZvd6ldwWdshAaa4kEaLk4GWPAySB+NAFiioLy/tNOtvtGoXUFrBuVfNnkCLljhRk8ZJIA9Sarapr+jaGIzrWrWOnCU4jN3cpFvPtuIzQBoUVma1Lq0/h2aXwjJp0mouqtavfFzbtyMljHyRtzjHfFY3w81/WvEGh3z+Jo7BNRsdRnsZf7PVxCTGQMrvJb164+lC1bXYHok++n6/odZRRVe9v7PTLR7rUrqC0t4/vzTyCNF+rHgUAWKKqabq2nazaC60i/tb+3JwJrWZZUJ/3lJFW6ACiiigAooqvf6haaVp819qVzFa2sCl5ZpWCqg9STQG5YorBj8ZaS2r6ZpszTW9xqyO9gJ4in2gIAWwD8y4Bz8wXPat6gAoqG7uo7K1kuJxIY4xlvLjaRsf7qgk/lXJWvxX8J3kejvb3k7jWZ/Is8WsnzEsVBbj5ASrY3YzgnoCaFq7INjs6KKKACiuV8X+IL7RvEHhS0smQRarqZtrkMmSU8p249DlRXVULVX/rp/mHW39f1oFFNkkSKNpJWVEQFmZjgADqSa52Tx7oMdvY3b3Liwv7pbO1vTGRFNKxIULnlgcHDAFfejrYPM6SiikZgqljnAGTgZP5UALRXF3vxY8J2Fnqd1c3dyselz/Z7gfY5dwk4yApXOBlcnGBuHPIrsYZkuLeOaI5SRQ6kjGQRkcGjfVAPoork/id4hvvCvw51PWdJMa3dt5XlmRNy/NKinI+jGjrYcU5OyOsopEOUUnqRS0Ep3Vwornr/wAb6LYWupXTTvPbaVn7fPAm6O3wMkFujMO6rlhxxzW5a3UN7Zw3VrIJYJ41kjdejKRkH8jQMloormb34heHtP1i80u7uLiO6srcXMym0l4QttXb8vzknoFznBpXSA6ais3w/r1h4n0C01nSHeSzu03xM6FCRkjoeeorSqmmnZiTTV0FFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFZ3iDRrfxF4c1DR70Zgvrd4XPpuGMj3B5/CtGik1dWY02ndHk+jXt14yn8KeH9T+a40NnutbX1mtmMMQP+9JmQeoSsT4i63ZXnxF1KwTSvAcN1p1tCst94yckzqylwsCY6Lk5I7mvabfTLCzvLm7tLK2gubwq1zNFEqvOQMAuwGWwOBmoL/wAP6Nql5Dd6npFheXNv/qZri2SR4/8AdYgkfhTd3a/q/ViVle3ovT+rnn/wZ1qw0z4N297rGo6fZWcd7coJzN5VsgM7hQjSEYXn5QecYqx8K/E2g3cmv2NrrenT3dzr99PBbx3cbSSxl8h1UHJXHORxiu4uPD2i3emyaddaRYT2MshlktZLZGidy24sVIwSW5z1zzVK28GeHdHka88PeG9EsNRSNhBPFYRxFWII5ZFDAeuO1F7Nt9rfl+qE1dcq73/P/M3q8y+Mes2dmNB0u70vQryW+uJXguPEcmywtWROWk9SQ2APrUn/ABe//qn/AP5O10mk6TquteHWtfibp/h+/uDMWENnC0tvswNpKzAnd1/Sk1cpOx5v8E59/wAQvFUaN4a2C0tCyeFgwst2ZBkBv4sdSOOnvXttU7PSNN06Tfp+n2tq/lLDughVD5aklU4H3QWJA6DJ9auVXRInq2eQ/FLwb/b/AItju/8AhVX/AAluLVI/t/8AwkX2HbhmPl+XuGcZzu77vaug+E/h7/hHtHv4f+EH/wCEP82cP9n/ALW+3+f8uN+7J2+mK76iktFYb1dwrzD4nzPc/EL4f6JffLo93qEk1xu+5LLEgaFG9csenc/SvT6q6jplhq9obXVrG2vrckEw3MKyIT67WBFHVPsw6Nd0N36fc6uI9sMt9aJuDbNzQh+27Hy5x0zkgVz3hrXNUv8Ax/4s0nUJ4pLbS2tRbLFFs2iSIu2eSSenft0FdNZ2Npp1qttp9rDawL92KCMIo+gHFcr4a0nU7P4keMNSvLCSCy1JrQ2szSRkS+XFsbhWLDn1Aprf5fqg6D/inrzeG/hfruoRMVn+zGGAjr5knyLj8WBqT4b+FF8HeAdL0p/mukhV7lzyWlKjP4AYUewFdDfadY6pbiDU7O3vIVdZBHcRLIoZTkNggjIPQ1ZpLS/n+n/D/kD1t5X/AB/4Y5Lw1rmqX/j/AMWaTqE8UltpbWotlii2bRJEXbPJJPTv26CtzXtIOu6PLYLqV/pZkKn7Vp0ojmTBB4YggZxg8dDXP+GtJ1Oz+JHjDUrywkgstSa0NrM0kZEvlxbG4Viw59QK7GjovRDe+h4f41+Hklj4k8HQnxr4suvtmrGISXF+jPB+5c74yIxtbjGeeCa9G8OeB5PD2qG9fxZ4l1cGMp9n1O9WWIZx820IvIx69zW5f6Np+qXVjc39sJptPm8+1csR5cm0ruGDzwSOfWr1C0T9f0RL1f8AXdnmnx2vJ4PAdpaLI0NlqWqW1nqEynHl27t8+T2BwAfr713TppKyWWmNFbu0aiS1g8sN5YQYDgY+UDoG45IHU1cubW3vbWS2vII7iCQbXilQMrj0IPBqDTdH0zRrcwaPp1pYQk5MdrAsSn8FAFC0T9bjetv6/r/gHHa1eeK9D1bQL46ktzHqepR2dzpHkR7IkcMd0bgbyyBckkkHBOB0rt727isLC4u7htsVvE0rn0VRk/yrj01HxBP4ga6uvBmpFo5DDZO9zZiGBCcGVsTlySOThSQPlA6luyubaC8tZba7hjngmQpJFKgZXUjBBB4II7Unfk0Hpz6nmPwL0eU+FLvxXqSsb7xJeTXpV+fLjZztA+uM+42+grV1q88V6Hq2gXx1JbmPU9Sjs7nSPIj2RI4Y7o3A3lkC5JJIOCcDpXcW1tBZWsVrZwR29vCgSKGJAqIoGAoA4AA7Vxyaj4gn8QNdXXgzUi0chhsne5sxDAhODK2Jy5JHJwpIHygdS1acyS2VvuXT+vUnXlbe7/N/1+h2N1B9qs5oBLLD5sbJ5sLbXTIxlT2I7V4l8Wfh5Jo/wv1a+bxr4s1AReV/o19fpJC+ZkHzKIwTjORz1Ar3KqOtaLp/iHSJtL1m2W6sp9vmRMxAbDBhyCD1ANJb3Li7NXOW0r4by6dqFret458X3ggdZPs91qKNFJjnayiMZHtmtT4h6jfaT8ONfv8ASd3223sJXhZBkq20/MPp1/CujAwAB0FBAIIIyD1BpTTlFxJh7rTZxHgGHRLD4R+HbSQwT2t7ZxKysm/7TLINz5XncSxYnrjkngGmfEDVtQ8O6ct7ZeIbXTZ/Oih0/TpFiEV4SygpIXG4dTyjKFAyc11Wn+H9G0ieSbStIsbGWTO97a2SNnzyclQM1keJ7e78Q6bq/h6Xw+8tvc2xihvJpYjAzMvUru3qVPP3T04qpyvLmS+X6f19wQjZWbOnHQZ615P8O7P/AISb4q+MfGdwWe3t7waXYI33R5K7Xcf99EA/7TeteoWFr9h022tPMaXyIUi3t1baAMn64pLDTrHS7b7Nplnb2cG4v5VvEsa7ick4AAyTyTRop3Xn/X3X+8WrhZ+X9ffY4/x7q+o6BDDd2viK2sLmS7hgsdNlEQiuwzqGVy435wWOUZQBjr37muV8V2d54n0fWvDcuguYbq3MUF9NJC0BZl4fbu3goefu9hg10trB9ms4YN7P5Uapubq2BjJpLYb3/r+v+GJaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorB8a+KovBfhW41y4tmuYbeSJZI0bB2vIqEjg5IDZx3xjigaV9Eb1FeTSfG28tpLyO/8ABN/bPp1zCNQDXUZFrbzFRFKSPvM28fuxkjByeK63xP4n8S6XqK2nhjwTdeIAI1kluPt0NrEuSflUvyzDGSAO45o6XF1sdZRXnuo+PtZ1P4cDXfCHhie+nkM8N1by3sdtJYtHuV2JbIfay9B1qp8LvFfjbWNH0KLXPCEkenS2KM2uyavFK03yZDmID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zF00/eNyLCmcJtUgbh8xOST0x1niXQLTxT4Zv8ARNRLi2voTE7RkBlz0Iz3BwfwrP0Dw7q+maXY6dqWvLeW1iiJGbe0NvJKqcKJG8xs9BnaFzjngkFJb38v1v8AoDvpbz/S36iav4stvC1mDf22o3lpZhI73Uo40ZICcDc4LBj1BOxWxnnFdKDkZHSuP+JNlNqfgzUDp+sfY5tPT7U8WyOSOYp86xyqwJ2kgcAjOe/Suo0+aa4021mu4vJnkhR5Y/7jEAkfgad73v8A1cVrWX9aFiiiigYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFU5NI02XVY9Tl0+1e/jTYl20CmVF9A+Mge2auUUAU7jSNNu9Rt7+60+1nvLYEQXMkCtJFnrtYjK59quUUUAFVNR0nTtXhSLVtPtb6ONxIiXMKyBWHRgGBwR61booAAAqgKMAcADtRRRQAUUUUAFIyhlKsAQRggjrS0UAZieGtCj0qbS49F05dPnYtLaLaIIpCTnLJjBOeeRTNK8KeHdBuWuND0HS9NndNjS2dnHCzLnOCVAJGQOPataigApksUc8LwzxrJFIpV0dcqwPBBB6in0UAYen+CfCuk30d7pfhnR7K6iz5c9tYRRyJkYOGVQRwSK3KKKACiiigAooooAp6hpGm6t5P9q6fa3v2eQSw/aYFk8tx0ZdwOD7im3miaVqF1Dc3+mWd1cQArFLPbo7xg9QpIyPwq9RQAAYGBwKKKKAKmoaTp2rLEuq6fa3qwuJIhcwrIEYfxDcDg+4qzFFHBEsUMaxxoMKiLgKPQCnUUAFFFFABRRRQAyWKOeF4Z41kikUq6OuVYHggg9RWNp/gnwrpN9He6X4Z0eyuos+XPbWEUciZGDhlUEcEityijzApx6RpsWqSanFp9ql/KgSS7WBRK6+hfGSPbNXKKKACqdzo+mXt/b315p1pcXdrn7PcSwK0kOeu1iMrn2q5RQAUUUUAFFFFABWdq/h7RdfWJdd0iw1NYSTGL22SYIT1xuBx0rRooAxD4K8LHSxpp8NaObAS+cLX7BF5Qkxjfs243Y4zjNW9J0DR9Aiki0LSbHTI5WDSJZ2yQhyO5CgZNaFFABVe+sLPVLKSz1O0gvLWUYkguIxIjjOeVOQasUUAZOleFPDug3LXGh6DpemzumxpbOzjhZlznBKgEjIHHtWtRRQAUUUUAFFFFAGDc+BfCN7eyXl54W0W4upX3yTy6dEzu394sVyT71oDQ9JXVH1JdLshfvt3XQt081sdMvjJx25q9RRsAUUUUAUbzRNK1G7iutQ0yzuriAFYpp7dXeMHqFJGRn2q8BgYHAoooAKKKKACiiigCC+sLTU7KSz1K1gu7aUYkguIxIjj3U8Gi0srWwtxBYW0NtCOkcMYRR+A4qeigCnZaRpumz3E2nafa2kt0++eSCBUaVvViB8x9zVyiigAqnHpGmxapJqcWn2qX8qBJLtYFErr6F8ZI9s1cooAKKKKACiiigAqjdaHpN9fx317plncXcS7I7ia3R5EXrgMRkD2q9RQBmat4Z0HX2ibXdE07U2hBEZvLSOYoD1xuBx0qxpulafo1ktno9ha2FqpLLBawrEgJ6naoA5q3RQAVR1XRNK162W31zTLPUoEbesV5bpMqtjGQGBGcE81eooAz9J0DR9Aiki0LSbHTI5WDSJZ2yQhyO5CgZNaFFFABRRRQAUUUUAUdO0TStI3f2TplnY7yS32a3SPcScnO0DqaLLRNK024ln07TLO0mmYvJJBbojOx6kkDkn1q9RQAUUUUAUToeknVG1M6XZm/YANd/Z080gdMvjPHbmr1FFABRRRQB//9k=)

The code to run this is given as follows:

|  |
| --- |
| 1. A = randi(100, 3,3); 2. c = randi(100, 3,1); 3. r = randi(100, 1,3); 4. val\_a = r\*c; 5. mat\_b = A - c\*ones(3,1); 6. mat\_c = A .\*(ones(3,1)\*r); 7. mat\_d = A .\* c; 8. mat\_e = A \* transpose(r); 9. val\_f = mat\_d(1) + mat\_d(2) + mat\_d(3); |

However, in attempt to run this, we encounter the following error:

|  |
| --- |
| Error using \*  Incorrect dimensions for matrix multiplication. Check that the number of columns in the first  matrix matches the number of rows in the second matrix. To operate on each element of the matrix  individually, use TIMES (.\*) for elementwise multiplication. |

Please identify the line(s) of code that has a bug and explain your reasoning (You can either formulate the correct code in the explanation or explain in short why it is incorrect):]

|  |  |
| --- | --- |
| **ANSWER**  **(2 points)** |  |
| **EXPLANATION**  **(2 points)** |  |