**Question 1**

Write a function that combines two lists by alternatingly taking elements. For example: given the two lists [a, b, c] and [1, 2, 3], the function should return [a, 1, b, 2, c, 3].

**Question 2**

Consider the following basic problem. You’re given an array *A* consisting of *n* integers ***A*[1], *A*[2], . . . , *A*[*n*]**. You’d like to output a two-dimensional *n*-by-*n* array *B* in which ***B*[*i*, *j*] (for *i < j*)**  contains the sum of array entries  ***A*[*i*] through *A*[*j*]—that is, the sum *A*[*i*]+ *A*[*i* + 1]+ . . . + *A*[*j*]**.Write the code of the description

**Question 3**

Taj Mahal hotel lobby is so huge that 3maids has to work together morning and evening to clean, mop, and dust and wash stairs the whole lobby. The roster is revised each week in such a way that morning duties of cleaning(C) and mopping(M) are swapped with evening duties of dusting(D) and washing(W). i.e. maid marking attendance in the morning first 3 days will mark attendance in evening next 3 days. This will be swapped next week with evening first 3 days and morning last 3 days. Sunday is an off day . Write a program to print duty roster for 6 maids for the next 4 weeks by asking their duties and shift for today. Use arrays to solve this. Hard coding will be marked as 0.

**Output format:**

**Maid week1 week2 week3 week4**

Azra C,M(Mor)W,D(Eve) C,M(Eve)W,D(Mor) C,M(Mor)W,D(Eve) C,M(Eve)W,D(Mor)

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**Question 4**

Implelment the follwoing function ArrPrintMatrix(char \*(p)[7]) which prints the content of the matrix[m][7] ={"SHAHBAZ","AYAZ"} in to 3x3 Matrix

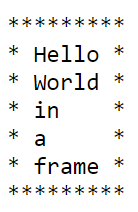
Sample Output=S H A

H B A

Z A Y

**Question 5**

Write a function that takes a list of strings an prints them, one per line, in a rectangular frame. For example the list ["Hello", "World", "in", "a", "frame"] gets printed as:



**Question 6**

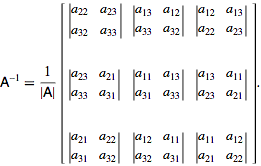
Implement the concept Stack with the help of 2D array .Implement the function of push() and pop() operations for the following string

**to be or not to - be - - that - - - is**

where - mean pop from the top position

**Question 7**

Enter the rows and columns on run time put the elements and Find the inverse of matrix matrix it can be 3x3 etc.



***Challenge:***

Write a function that given a list of non negative integers, arranges them such that they form the largest possible number. For example, given [50, 2, 1, 9], the largest formed number is 95021.