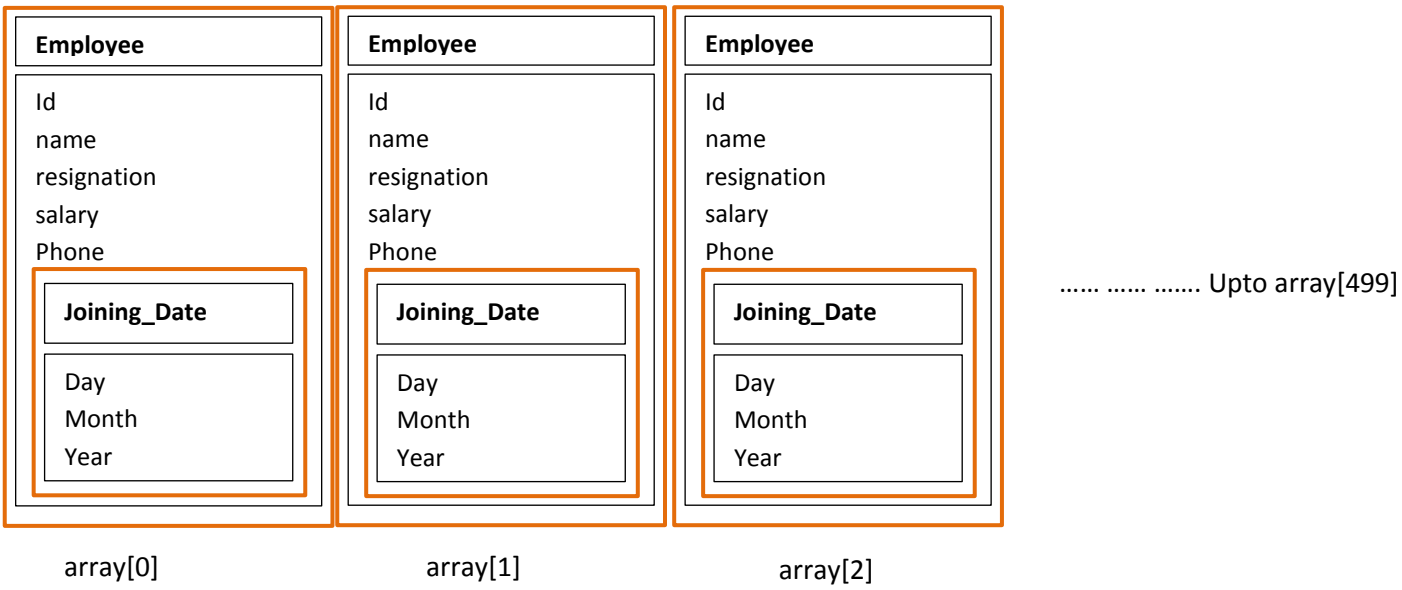
Employee Management Software:

1. Each employee is represented by a structure containing the following information (declare the structure):

Variable	Datatype	Description
Employee id	integer	It will be unique, no two employees can have the same id.
Employee name	string	More than one employee can have same name.
Designation/Rank	string	More than one employee can have same designation
Salary	Floating point number	Can't be negative
Phone no	string	unique
Joining Date	A structure containing 3 integers representing day, month, year.	Not unique

2. Declare an array (maximum size 500, global variable) of that structure (you have defined in step 1). [That means the array can contain at most 500 employees information] The array looks like this:



3. Write a function menu() that shows the following message in the console and prompts the user to input his choice and returns the choice as an integer [return type of the menu() function].

The menu() function will show the following messages in the output:

1. Add new employee
2. Search an employee by id
3. Update employee info
4. Delete employee
5. Display average salary
6. Search employee ids after a given joining date
7. Search employee ids having maximum salary
8. Search total no of employees by designation
9. Search employee ids having the given name

Enter -1 to exit.

***inside the main() function continuously call the menu() function and according to the return value of that menu() function call the related function.

The description of all the functions is given below:

choice	Function Name	Description
1	void add_employee( )	1. Create new structure. 2. Take input all the information of that structure, employee id and phone no must be unique. 3. Insert that structure at the end of array.
2	int search_id(int emp_id)	1. Search the array to find employee having the given emp_id. 2. If emp_id is found, then display all the employee information and return the index number of that employee. 3. If emp_id is not found, then show the message “Not Found” and return -1
3	void update_info(int emp_id)	1. Call search_id(int emp_id) function 2. If return value of search_id is not -1, then again take input all the information of that employee and update the array. 3. After updating the information, show message “Updated Successfully” 4. Otherwise show “Not Exists”.

4	void delete_employee(int emp_id)	1. Call search_id(int emp_id) function 2. If return value is not -1, then delete the structure of that index no. You can't keep any empty cell in that array so after deletion shift left all the remaining elements of that array.
5	double display_avd_sal()	1. This function will calculate the average salary of all the employees and returns the average.
6	void search_join_date(int day, int month, int year)	1. Search the array and display the ids of all those employees whose joining date is after that given date.
7	double max_sal()	1. Search the array to find the employee id having maximum salary and return the salary.
8	int count_rank(char string[])	1. This function will search the array and count no of employees having the given rank 2. Finally return that count, if no employees is found then return 0
9	void search_name(char name[])	1. Search the array to find the ids of those employees having the given name
-1		1. Stop taking input and exit from the program.

Marks Distribution:

9 functions → 9*4=36
menu() → 1*4=4
main() → 1*4=4
structure → 1*6=6