Pseudocode Binary Search

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ProcedureBinary Search Surname
  if (condition == 1)
     printf "The List needs to be sorted"
     break;
  end if
     printf "Enter the Surname you want"
     scanf search key
     int c;
     while ((c = getchar()) != '\n' && c != EOF) // clear input buffer
     int check = binary search(DT mix, 0, size array-1, search key)
  // perform check whether what you are looking for is in the list or not
  if (check == -1)
     printf "Could not find Surname"
     else
                   printf "Student number" check+1
                   printf "Firstname: Surname: ID: Course: "
            DT mix[check].firstname, DT mix[check].surname
            DT mix[check].ID, DT mix[check].course
     end else
   end if
     int binary search struct student DT[], int low, int high, char key[]
while low <= high
  int middle = (low + high) / 2
  if (strcmp(key, DT[middle].surname) == 0)
     return middle;
     else
              if (strcmp(key, DT[middle].surname) < 0)
          high = middle - 1
               else
          low = middle + 1
        end else
      end if
      end else
    end if
      // in case the element is not present
       return -1
end while
```