28 06 2023 Tonding Algorithms. D'Emplain low moin sonthing algorithms on be performed using an appropriate array enample T+-09 Selection sort - The algorithm repeatedly selects the south of the unscribed postion of the lost and swaps it with the first element of the is sorbed. Phis process is constinued until the to entire too 8g:- arr []= 264,25,12,22,113 Bubble sort -: This is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements it they are in the wrong order. This algorithm is not sustable for large cluster sets as its average and count care time completely is quite high. Eg: how the contact list on your phone is sorted in alphabeteal order. 2) Real world explenample for sorting algorithms. Beleeton out is moster lights Sorting the contact is to Sorting from man to min proces in online shopping pages

3) Compare and contrast bubb	he sort and selection sort algorith
Bubble soft	Belection Sort
Less Straient	Moss efficient
User item enchanging	User item selection
Slower	Pas ter
Compare the adjacent oliments are swap awardingly	Selects the minimum from the onsorted suborray end ple sorted array
Compare Ste adajeent	Takes the smallest value the list and move it to proper position in the an
4	
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3 (3)	Company to the state of the company
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	The Carport of the property of the control of the c

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a) Write a function using pseudo or soune codes to sort as integer array using bubble sout and selection sort.
   # include Latdio. h >
wid bubble Sort Cint array []. int size)
          for (int i = 0; i. Lsize - step = 1; ++i)
            if Corray Ci) = > array [i = 12)
                 int temp = array [i];
             array Ci) = array [i=-1];
array Cs +1) = temp;
  void print Army (int array (), int size) {
for (int i = 0; i < size; ++i) {
printf ("y.d", array (i));
}
  3 prints (" (n");
```

```
void selections art (int array [), int size)
   for (int stop = 0; stop (19:2e-1; stop++)
       int min-ida = step;
      for (int; step +1; i 2 size; i++)
         if Carray [i] Corray [min-idx]
        min-ida=i;
3
-30ap (n oreay [min-Ida], & array [step]);
void print Array (int Array (), int size)
    for (in + 1=0; i (size; ++1)

{
  printf (" y.d", orray [i]);
}
  3 prints ("(n"),
```