3)
```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main() {
 for (int i = 0; i < 10; i++) {
int ARSIZE = 0;
printf("Enter size: \n");
scanf("%d", &ARSIZE);
 int a[ARSIZE];
clock_t start, end;

for (int i = 0; i < ARSIZE; i++)
 a[i] = rand();

int s = 0, min;
start = clock();
for (int i = 0; i < ARSIZE ; i++) {
min = 32767;
for (int j = i ; j < ARSIZE ; j++) {
if (a[j] <= min) {
  min = a[j];
    s = j;
}
else
   continue;
}
int temp = a[i];
a[i] = min;
```

```
a[s] = temp;
}
end = clock();
printf("Time is %f \n", (((double)
end - start)) / CLOCKS_PER_SEC
);
}
}
```

Modifications

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main(){
for(int i=0; i<10; i++){
int ARSIZE=0;
printf("Enter size: \n");
scanf("%d", &ARSIZE);
int a[ARSIZE];
clock_t start, end;

for(int i=0; i<ARSIZE; i++)
  a[i] = rand();

int s=0, min;
start = double clock();
for(int i=0; i<ARSIZE; i++){
```

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```
min = 32767;
for (int j = i; j < ARSIZE; j++){
if (a[j] <= min){
  min = a[j];
  s = j;
}
else
   continue;
}
int temp = a[j];
a[i] = min;
a[s] = temp;
}
end clock();
printf("Time is %f\n",
(((double) end - start))/
CLOCKS_PER_SEC );
printf("which largest element is
needed ?\n");
 int n=0;
 scanf("%d", &n);
printf("Element is %d", a[ARSIZE
 -n]);
}
}
```