

- Q: Write a program in the following steps
- Generates 10 Random 3 Digit number.
 - Store this random numbers into a array.

Answer:

```
arr=()
sum=0
for i in `seq 10`
do
    sum=$((100 + $RANDOM % 900))
    arr=(${arr[@]} $sum)
done
echo ${arr[@]}
```

- Q: Extend the above program to sort the array and then find the 2nd largest and the 2nd smallest element.

Answer:

```
arr=()
sum=0
for i in `seq 10`
do
    sum=$((100 + $RANDOM % 900))
    arr=(${arr[@]} $sum)
done
echo ${arr[@]}
printf '%s is the second smallest number\n' "${arr[@]}"
" | sort | head -2 | tail -1
printf '%s is the second largest number\n' "${arr[@]}"
" | sort | tail -2 | head -1
```