

HEAP

Develop Max heap which contains the following functions

- Add data to this Max heap
- Remove data from this Max heap
- Show all data in this Max heap

Example

Input	Result	Description
a 12		add 12 to this Max heap
a 13		add 13 to this Max heap
a 20		add 20 to this Max heap
p	20 12 13	Show all data in this Max heap
d	20	Show a removed data
p	13 12	Show all data in this Max heap
e		End

Input	Output
a 18	19 18 2 10
a 19	258 19 95 10 18 2
a 2	258 98 102 36 18 2 95 10 19
a 10	258 98 102 36 18 2 95 10 19
p	258 98 102 36 71 2 95 10 19 18
a 258	258 98 102 36 71 2 95 10 19 18 11
a 95	258 98 102 36 71 71 95 10 19 18 11 2
p	258
a 102	102
a 36	150 98 95 36 71 71 2 10 19 11 18
a 98	150
p	98
p	95
a 71	71

p	71 36 11 19 18 10 2
a 11	
p	
a 71	
p	
d	
d	
a 150	
p	
d	
d	
d	
d	
p	
e	