Heap sort

```
#include <stdio.h>
int arr[1000];
int brr[1000];
int heapsize = 0;
int formheap(int x)
       heapsize++;
       arr[heapsize] = x;
       int n = heapsize;
       while(arr[n/2] < x)
              arr[n] = arr[n/2];
              n = n/2;
       arr[n] = x;
int heapify()
       int i=1,next;
       int temp;
       if(arr[heapsize] < arr[1])</pre>
              //swap
              temp = arr[heapsize];
              arr[heapsize] = arr[i];
              arr[i] = temp;
       }
       heapsize--;
       for(i=1;2*i<heapsize;i=next)</pre>
       {
              next = 2*i;
              if(arr[next] < arr[next+1])</pre>
                    next++;
              if(arr[next] > arr[i])
              {
                    //swap
                    temp = arr[next];
                    arr[next] = arr[i];
                    arr[i] = temp;
              }
              else
                    break;
       }
int main()
```