```
#define area(r) T = r = acos(-1)
bool can(double mid, vectorcint) &v, int f){
      for(int i = 0; i < int(v.size()); i+)
          cnt += int(area(v[i]) / mid);
      return cnt >= f + 1;
main(){
      int n, f, t;
      scanf("%d", &t);
      while(t--){
           scanf("%d %d", &n, &f);
           vectorkint> v(n);
           for(int i = θ; i < n; i++) scanf("%d", &v[i]);
                                                           hoste.
                                                           ON YOUNGEROOM
           for(e *= 0.5; e > 1e-9; e *= 0.5)
                                                           241
               if(can(s + e, v, f)) s += e;
                                                            Nest
           printf("%.41f\n", s);
                                                            Hira.
```