Peek algoritmi:

```
public void AlgoritmGenerational (){
        Vector a = new Vector (generatii );
       int i , j;
       Initializare();

            for (i =0; i <generatii ; i++) {
                 Cromozom fiu= new Cromozom(dimPop);
                 fiu=Selectie();
                 fiu=Mutatie(fiu);
                 if (fiu.getFitness(lungime)<populatie.get(celMaiSlab()).getFitness(lungime))
                       populatie.set(celMaiSlab(),fiu);
                 System.out.println("cel mai bun  la pasul "+ i+ " : "+
populatie.get(celMaiBun()).toString(lungime));
                 String result= "cel mai bun  la pasul "+ i+ " : "+ populatie.get(celMaiBun()).toString(lungime);
                a.add(i, result);
       }
       jList2.setListData(a);
   System.out.println("solutia cea mai buna " + populatie.get(celMaiBun()).toString(lungime));
   jTextField8.setText(populatie.get(celMaiBun()).toString());
   jTextField9.setText(populatie.get(celMaiBun()).getFitness(lungime)+"");
       }
```

```
public Cromozom Mutatie (Cromozom fiu ){
    System.out.println("inainte de mutatie "+ fiu.toString(lungime));
     int i ,ok=1, poz2,poz1 ;
     Pachet mut= null;
     mut = fiu.getListaPerechi().get(0);
     poz1=  mut.getInapoi();
     if (mut.getDoi()==poz1)
          mut.setInapoi(mut.getUnu());
       else mut.setInapoi(mut.getDoi());
     poz2=mut.getInapoi();
     for (i=1 ;i< dimPop-3 && ok==1; i++)
     {  if (fiu.getValAt(i).getInapoi()==poz1)
       {  fiu.getValAt(i).setInapoi(poz2);
                if (fiu.getValAt(i).getUnu()==poz1)
                {fiu.getValAt(i).setDoi(poz2);
                 ok=0;}
                else
                { fiu.getValAt(i).setDoi(poz2);
                  ok=0;}
            }
     }       if (ok==1)
        if ( fiu.getListaPerechi().get(i+1).getDoi()==poz1)
             fiu.getValAt(i+1).setDoi(poz2);
        else fiu.getValAt(i+1).setUnu(poz2);
         System.out.println("dupa mutatie "+ fiu.toString(lungime));
    return fiu;    }
```

```
public Integer celMaiSlab ()
  { Integer cr=0;
    Integer i,fit=Integer.MIN_VALUE;
    for (i=0;i<nrPop;i++)
        if (populatie.get(i).getFitness(lungime)>fit)
        {   cr=i;
         fit=populatie.get(i).getFitness(lungime);}
    return cr;
  }
          public Cromozom Selectie() {//binar
                    Integer unu=0, doi=0 ,fit1=0,fit2=0;
                    Integer ii = 0;
      System.out.println(" size " + populatie .size() );
      unu=Math.abs(random.nextInt(populatie.size()));
      doi=Math.abs(random.nextInt(populatie.size()));
       System.out.println( unu + "   ,  " + doi );
      fit1=populatie.get(unu).getFitness(lungime);
      fit2=populatie.get(doi).getFitness(lungime);
      System.out.println( fit1 + "   ,  " + fit2 );
       if (fit1>fit2 )
          ii=doi;
       else ii=unu;
           System.out.println(  "populatie[" +ii+"]=" + afisCromozom( populatie.get(ii)));
                        return populatie.get(ii);
}
```

Mai exista binenteles, dar nu le voi include aici clasele Pachet, Cromozom. Etc. Sunt disponibile in pachetul proiectului.