Rešitve pisnega izpita z dne 7. septembra 2001

```
1. naloga (25%)
    #include <stdio.h>
    #define MAX 26
    main() {
      int c, i;
      int crke[MAX];
      for( i=0; i<MAX; i++ )</pre>
        crke[i] = 0;
      while( (c=getchar()) != EOF ) {
        if( c != '\n' ) {
           if( (c >= 'a') && (c <= 'z') )
             ++crke[c-'a'];
           if( (c >= 'A') && (c <= 'Z') )
             ++crke[c-'A'];
        else {
           for( i=0; i<MAX; i++ ) {</pre>
             if(crke[i] > 0)
               printf("%c ",'a'+i);
             crke[i] = 0;
           printf("\n");
        }
      }
    }
2. naloga (25%)
    #include <stdio.h>
    #include <ctype.h>
    main(int argc, char *argv[]) {
      FILE *fp1, *fp2;
      int ch, prev;
      if( (fp1 = fopen(argv[1], "r")) == NULL)
        exit(0);
      if( (fp2 = fopen(argv[2], "w")) == NULL) {
        fclose(fp1);
         exit(0);
      }
      prev = 0;
      while( (ch=getc(fp1)) != EOF ) {
  if( isalpha(ch) && ((prev == ' ') || (prev == '\n') || (prev == '\t')) )
           putc(toupper(ch), fp2);
           putc(tolower(ch), fp2);
        prev = ch;
      fclose(fp1);
      fclose(fp2);
3. naloga (25%)
    #include <stdio.h>
    #include <math.h>
    #define MAX_TOCK 10
```

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```
#define MAX CRT 10
    int tocke[MAX TOCK][2];
    int crte[MAX_CRT][2];
    main() {
      int i;
      int x1, y1, x2, y2;
      double dolzina;
      dolzina = 0;
      for( i=0; i<MAX CRT; i++ ) {
        x1 = tocke[crte[i][0]][0];
        y1 = tocke[crte[i][0]][1];
        x2 = tocke[crte[i][1]][0];
        y2 = tocke[crte[i][1]][1];
        dolzina += sqrt((y2-y1)*(y2-y1) + (x2-x1)*(x2-x1));
    }
4. naloga (25%)
    void dodaj(struct elem **p, char niz[]) {
      struct elem *q, *r;
      q = (struct elem*) malloc(sizeof(struct elem));
      strcpy(q->niz, niz);
      if ( (*p == NULL) |  (strcmp(niz, (*p)->niz) < 0) ) { // dodaj na zacetek seznama
        q->naprej = *p;
        q->nazaj = NULL;
        (*p)->nazaj = q;
        *p = q;
      } else {
          // poisci ustrezno mesto v seznamu za nov element
          r = *p;
          while ( (r-\text{-}naprej != NULL) \&\& (strcmp(niz, r-\naprej-\niz) > 0 ) )
            r = r->naprej;
          // dodaj za element, na katerega kaze r
          q->naprej = r->naprej;
          r->naprej = q;
          q->nazaj = r;
          if( q->naprej != NULL)
            q->naprej->nazaj = q;
      }
    }
```

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