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| watermark |
| QString array2byte(byteArray &array);  QString array2str(byteArray &array);  byteArray byte2Array(QString &number);  byteArray decodeImg(uchar\* buffer, uchar\* dst, const int width, const int height, const int length);  uchar\* edgeExtract(uchar\* buffer, const int width, const int height);  byteArray encode(byteArray src, byteArray key);  byteArray generateKey(const int length);  byteArray img2Array(QString &dir);  uchar\* readBmp(const char \*bmpName, int& bmpWidth, int& bmpHeight);  byteArray str2Array(QString &str);  uchar\* substract(uchar\* buffer1, uchar\* buffer2, const int size);  uchar\* translation(uchar\* buffer, const int width, const int height, int x\_off, int y\_off);  uchar\* watermarkImg(uchar\* buffer, uchar\* edge, const int size, byteArray code);  bool savebmp(const char\* filename, uchar\* buffer, const u\_int32\_t height, const u\_int32\_t width); |
| BITMAPINFODEADER BMIH;  BITMAPFILEHEADER BMFH;  int biWidth;  int biHeight;  int biBitCount;  int lineByte;  RGBQUAD\* pColorTable; |

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| --- |
| MainWindow |
| Q\_OBJECT |
| explicit MainWindow(QWidget \*parent = 0);  ~MainWindow(); |
| void on\_pushButtonBrowse\_clicked();  void on\_lineEdit\_textChanged(const QString &arg1);  void on\_pushButtonEncode\_clicked();  void on\_pushButtonDecode\_clicked(); |
| Ui::MainWindow \*ui;  QPixmap image;  byteArray key;  uchar\* dst; |